

# SELF STUDY REPORT (SSR)

## CYCLE III

*Submitted to*

**NATIONAL ASSESSMENT AND  
ACCREDITATION COUNCIL  
BANGALORE**



**Christ College, Irinjalakuda**  
Thrissur, Kerala-680 125

*(Accredited by NAAC with 'A' Grade)*





# CHRIST COLLEGE IRINJALAKUDA

(Accredited by NAAC with 'A' Grade)

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## *Greetings from Christ College*

To

The Director,  
National Assessment and Accreditation Council  
P.O. Box. No. 1075  
Nagarbhavi,  
Bengaluru, Karnataka-560 072

Respected Sir,

Sub:- Submitting Hard copies of SSR (Cycle III) for Assessment & Accreditation  
Ref: 1. LOI submitted by the Institution : Track ID - KLCOGN10419  
2. SSR (Cycle III) uploaded on College Website

It is our pleasure to inform you that the Self Study Report (Cycle III) is submitted herewith for Assessment & Accreditation by NAAC showcasing the key aspects of the functioning of our College during the post reaccreditation period. The Report has been prepared as per the latest guidelines of NAAC. We submit five hard copies and one soft copy (CD) for your consideration and necessary action.

Hope we shall have the pleasure of hearing from you on your decision for peer team inspection and further processing.

Thanking you

Yours faithfully,

Date : 08-04-2015  
Place: Irinjalakuda



  
Principal

Rev. Fr. Dr. Jose T.M. CMI



## FOREWORD

*The Christ College Irinjalakuda, founded in 1956 by the Devamatha Province of the Carmelites of Mary Immaculate (CMI) with an ideal Vision and Mission of higher education has been moulding an enlightened generation since its inception. It was accredited by NAAC in 2003 and later reaccredited in 2009 as an 'A' Grade College. Now, it is the time for the third cycle of accreditation. On the threshold of Diamond Jubilee year, the College is now submitting the Self Study Report, a landmark document prepared according to the NAAC's guidelines and the recommendations of the two NAAC Peer teams.*

**PRINCIPAL**



## CONTENTS

## Page No.

Covering Letter	
Executive Summary and SWOC Analysis	1
Profile of the Institution	14
<b>Criterion-wise Analytical Report</b>	
Curricular Aspects	25
Teaching-Learning and Evaluation	47
Research, Consultancy and Extension	96
Infrastructure and Learning Resources	151
Student Support and Progression	171
Governance, Leadership and Management	199
Innovations and Best Practices	223
Post Accreditation Initiatives	235
Evaluative Report of the Departments	240
<b>Documents and Certificates</b>	
Certificate of NAAC Accreditation (Cycle I)	
Certificate of NAAC Re-Accreditation (Cycle II)	
Minority Certificate	
Certificate of Inclusion Under Section 2(f) & 12(B)	
Certificate of Affiliation	
Declaration by the Head of the Institution	
List of IQAC Members	







# *Executive Summary and SWOC Analysis*





## EXECUTIVE SUMMARY

Christ College was started in 1956 by the Devamatha Province of Carmelites of Mary Immaculate (CMI), an indigenous religious congregation founded by St. Kuriakose Elias Chavara. It has a history of more than a half century with excellent achievements. Its founder Principal, Rev. Fr. Gabriel, was awarded the *Padmabhushan* by the Government of India in 2007 for his contribution to the cause of higher education in Kerala. The College started functioning with three UG batches in Zoology, Chemistry and Commerce. PG programmes in Commerce and Zoology were started in 1961. The College, affiliated to the University of Calicut, is included under section 2(f) and 12(b) of UGC Act 1956. The Institution had its first accreditation by the National Assessment and Accreditation Council of the UGC in 2003. It was reaccredited in 2009 with 'A' Grade.

During the last five years the College was passing through a transitional period of rapid development. The concerted efforts of the Management, the Staff and the Students, combined with the wholehearted support from the alumni, the parents and the local community helped the College to scale new heights. The Government of Kerala has recommended that the College be granted Autonomous status and the approval from the UGC is expected soon. At present the College has twenty Departments that offer 12 PG, 18 UG, 6 Add-on programmes and a PG diploma programme. Six Departments are Research Centres. Since its inception, till this date, the College has maintained a consistent track record in both academic and extracurricular achievements. The students of the College are in the forefront, not only in garnering academic honours, but also in cultural activities and in sports and games at the University, State as well as National levels. The achievements of the Institution are well exemplified by its renowned alumni who occupy coveted positions as scientists, academicians, administrators, chartered accountants, scientists, advocates, computer professionals, professors, doctors, engineers, etc.

The suggestions of the two NAAC Peer teams were immensely helpful in drafting strategies and prospective plans for quality enhancement. It is now time for the third cycle of accreditation. A brief outline of the activities of the College, recorded criteria-wise in the Self Study Report, is given below.

## CURRICULAR ASPECTS

### Curriculum Planning and Implementation

In curriculum planning and implementation Christ College goes an extra yard to incorporate its educational ideals into the curriculum designed by the affiliated University. The College has a clear Vision and Mission statements that amalgamate the Educational policy of the CMI congregation. The College provides a conducive environment for the youth to excel not only in academics, but also in cultural and sports fields. It meticulously nurtures its wards so that they may assimilate cultural, moral and ethical values in the course of their academic pursuit. The Motto of the College is *Jeevitha Prabha* which means 'Light of Life', as it considers education as a tool to mould an enlightened generation.

The College offers 12 PG and 18 UG programmes. Besides, six of its Departments are approved Research Centres of the University of Calicut. Availing UGC funding, it offers a PG Diploma and six Add-on courses also. The Bridge courses and the soft skill development programmes are in addition to the above. The College follows the Choice Based Credit and Semester System implemented by the University for the UG and PG programmes. For the effective implementation of the curriculum, an academic calendar prepared by the IQAC at the beginning of each academic year, is followed and the working hours are distributed as per a general Timetable provided by the College. The



individual Timetable for Departments are prepared by the respective Heads of the Departments. Individual academic plan is prepared by the faculty in tune with the general academic calendar. A collective monitoring system, involving the Principal and the Heads of the Departments, ensures the timely completion of the syllabus and the conduct of internal evaluative process before the University Examinations.

Syllabus up gradation and modification take place at least once in five years. The faculty are given Duty Leave to participate in the workshops and seminars, organized to familiarize the revised curriculum. Students will be given copies of the syllabi so that they also may get familiarized with the curriculum. The internal examinations are conducted twice in a semester, to assess the academic progress of the ward, for which a detailed plan will be given by the IQAC in the month of June itself. Parent-teacher interface meetings are organized in each semester to discuss the performance of the student in the presence of his/her parent/guardian.

### **Academic Flexibility**

Affiliation limits the freedom for academic flexibility, curriculum design, course structure, evaluation process, etc. Within the limited academic flexibility, it is proud to state that the faculty of the College have given significant contribution in the design, development and modification of the syllabi for various courses. The entire syllabi for the six Add-on courses and innovative programmes like PG diploma in Disaster Management and PG diploma in Sustainable and Green Energy Technologies are prepared by the faculty. The syllabus of M. Sc. Environmental Science, followed in the University of Calicut, is fully designed by the faculty of the College. It is also to be noted that this is the unique College in the affiliated University that offers M. Sc. Environmental Science programme. The faculty from various Departments, with their capacity as members of Board of Studies, has taken the initiative to include emerging topics in the syllabi during the revision process, which will increase the students' chances for employability, and enable them to perform well in competitive examinations for higher studies. The College has utilized the option to choose some new generation topics for elective/complementary programmes and open courses rather than the conventional topics. The College has been recommended for autonomous status by the Government of Kerala. The Institution is aware that autonomy entails greater responsibility, in matters like restructuring the syllabus, designing of new courses, rescheduling of examinations and timely publication of results. However, it is confident that the freedom and flexibility that autonomy confers in academic matters, can be utilized effectively in designing the syllabus of various programmes and in starting new courses, thereby doing justice to the Institutional Vision and Mission.

### **Curriculum Enrichment**

Since the College is an affiliated one, it is bound to follow the syllabus prescribed by the affiliated University. The academic programmes designed by the University are not completely in line with the objectives of the College. So the College supplements them with various activities that are required to improve the attitude and employability of students. Apart from imparting quality education as per the suggested syllabus, College takes care to arrange certain skill development programmes to enhance the employability of the students. Funding from all quarters is utilized for this purpose. Thus, the College has started six UGC sponsored Add-on courses and one PG diploma programme to enrich the curriculum. Most of the takers of the programmes are from socially and economically backward areas. Aiming at the empowerment and holistic development of the weaker sections, the College offers many enrichment programmes like life orientation classes, value education classes, computer literacy programmes (*IT Vijnan*), personality development classes, soft skills training, classes for competitive examination like NET/JRF etc. Besides, the College is keen on organizing sensitization programmes in



areas such as gender equity, social responsibility, environment awareness and biodiversity protection.

### **Feedback System**

The Institution collects feedback on curriculum from all its stakeholders. The impressions received from class teacher-student interactions, PTA meetings, the OSA and the faculty are compiled and communicated to the affiliating University, for appropriate inclusion and decision. A good number of the faculty are involved in the decision-making bodies of the University, in their capacity as Syndicate Member, Senate Members, Members of various Boards of Studies, Members of the Curriculum Designing Committee, etc. They play a vital role in updating the syllabi and making them more relevant to the society and industry.

## **TEACHING LEARNING AND EVALUATION**

### **Student Enrolment and Profile**

The admissions to various programmes are done in accordance to the rules and regulations given by the Government and the University from time to time. It can be either through a Common Admission Process- CAP- arranged by the University through a single window system or through a localized admission process conducted by the College. In the localized admission process, the College invites application from the aspirants for various programmes and the applicants are ranked under various categories (Open, Community, Sports, Differently-abled and SC/ST) using a computer software specially designed for this purpose. The rank list is prepared as per Government/University norms, ensuring total transparency in the process. All statutory reservation policies are meticulously followed ensuring inclusiveness and student diversity in the campus. In order to sustain the quality of education, a minimum mark is set even for applicants to the management quota seats. The Management policy is to set apart a few of the management quota seats for meritorious students from economically weaker and marginalized sections to fulfill their dreams of higher education. There is high demand ratio for all the programmes which may be attributed to the high percentage in results, campus discipline, commitment of the staff, their support for student progression, well equipped laboratories and other such systems, support for sports and fine arts and the good governance ensured by the management.

### **Catering to Student Diversity**

Meticulous care is given for the overall growth of all students admitted to the College, irrespective of their caste, creed, colour, intellectual capacity and financial status. A healthy class teacher system exists in the College. The class teachers establish a healthy relation with their wards and identify their skills, interests and their socio-economic backgrounds. The diverse needs of the learners are addressed with due care. Through personal contact, the class teachers give proper guidelines and motivate them to develop interest in the subject.

The College provides remedial coaching classes for weaker students to streamline their academic performance level. Class teachers mentor each student personally and students with learning difficulties are given special coaching. The Government of Kerala sponsored projects like ASAP (Additional Skill Acquisition Programme), Student Support Programme for weak students and Walk with a Scholar Programme for the highly talented students have been taken up by the College. It has envisaged some special measures for the integration of the differently-abled students into the general student community. The College takes all necessary steps to acquire and dispense the Government scholarships and fee concessions, to the eligible students under reservation category. Besides, the meritorious students who are eligible for fee concession as per Government norms but admitted to self-financing courses (Students admitted to self-financing courses are not



eligible for fee concession from the Government), are given a fee concession upto 50% of their tuition fees by the College.

### **Teaching Learning Process**

The College takes utmost care in ensuring efficient and effective teaching by its faculty and productive learning by its wards. For achieving this goal, a number of measures are adopted at various levels - academic planning (arrangement of classes), knowledge dissemination and learning evaluation (through examinations). The Principal convenes meetings of the IQAC and the College Council to prepare a blue print of the annual academic activities and various curricular and extracurricular programmes. The IQAC plays a vital role in quality enhancement and sustenance of the teaching-learning process by giving timely directions and encouragement and providing facilities for undertaking various functions. All teachers prepare individual Academic Plan and Heads of Departments ensure strict adherence to the same. Student-centered teaching methods like participative learning, seminar presentations, experiential learning, field work, study tour etc. are integral part of the pedagogy. Use of ICT, e-learning resources, Smart Boards, etc. are encouraged in the teaching learning process and adequate infrastructural facilities like library resources and internet connectivity for the updating of knowledge are provided. The faculty are continuously recharged in their respective disciplines and in professional competence through training programmes, both inside and outside the College. Exclusive sessions of invited lectures, exhibitions and quiz programmes are organized for students, with opportunities to interact with resource persons. This helps to widen their critical thinking ability, creativity and scientific temper. Dr. A P J Abdul Kalam, Former President of India, Dr. K Radhakrishnan, Former Chairman, ISRO and an alumnus of the College are some of the eminent persons who made a visit to the College in the recent past.

### **Teacher Quality**

Even though the College is owned by a minority community, its Management prioritizes merit and qualifications of the applicants, not caste and creed, in the recruitment of the human resource. Of the present faculty, more than eighty percentage are with research backgrounds and fifty percentage have Ph. D. degree. Recruitment is done strictly adhering to the UGC, University and State Government norms. Academic excellence is given priority in the appointments to self-financing programmes also. The success and progress of the Institution for the past six decades is essentially due to a community of teachers, who are committed to their vocation and are professionally competent to impart the true Vision of education. The College Management always encourages the faculty to attend refresher courses, national and international conferences/seminars and workshops so as to update and equip them to handle the emerging topics. The IQAC has organized three academic meetings at different levels to enhance and sustain the teacher quality during last five years. The systematic feedback mechanism from all stakeholders and at all levels helps the faculty to improve their competency.

### **Evaluation Process and Reforms**

Class teachers are entrusted to orient students towards the University scheme of evaluation which consists of seminars, assignments, attendance, internal examinations, etc. The academic calendar prepared by the IQAC at the beginning of each semester includes the tentative dates of the internal examinations and the topics to be completed. The Examination Committees look into the conduct of internal and external examinations taking every measure to maintain confidentiality. The IQAC makes sure that the internal evaluation process is completed in time by all the Departments. To ensure transparency, the scores of internal assessment are displayed on the Departmental notice board. For redressing any grievances related to the internal evaluation, the College provides a three



level grievance redressal mechanism- with the teacher concerned, with the Head of the Department and with the Principal of the College.

Since the external examination is conducted by the University, not many reforms had been initiated in the College. Some of the teachers conduct the internal examinations with computer generated question papers; some do the evaluation on every week and the results are consolidated for the internal assessment. Majority of the teachers stick on to the conventional mode of evaluation.

### **Student Performance and Learning Outcome**

The College believes that education should lead to the integral development of the youth and it should be imbued with Indian ethos and enriched with universal values. Hence, in addition to the usual examination system to assess the learning outcome, the College has set up certain parameters to assess the refinement of the students through their education in the Institution. The Departments also have certain clearly stated learning outcomes, specifying what the learner is expected to accomplish at the end of the programme. The Heads of the Departments sensitize the students about these learning outcomes in various Departmental programmes. The students' performance and progress are closely monitored by the class teachers, and the results are communicated to their parents/guardians at parents' meetings.

## **RESEARCH CONSULTANCY AND EXTENSION**

### **Promotion of Research**

Quality enhancement and sustenance is an unending process. Keeping this in mind, several measures have been taken to promote research culture among both the staff and the students. The Research Committee of the College is very keen to maintain this research culture in the campus. More than fifty percentage of the faculty have Ph. D degree, and the Management encourages them to pursue their post-doctoral research activities. During the last five years, four Departments have been elevated to the status of Research Centres, and twelve research scholars were awarded doctoral degree. Presently, the College has six Research Centres with twenty one research guides and sixty one research candidates. Six of the faculty availed the FDP scheme of the UGC to complete their research leading to Ph.D. and twelve of the faculty were awarded Ph.D. Admission to the research programmes and assessment of research progress are conducted twice a year. In order to promote a research culture among students, the College has instituted financial assistance, named as Christ College Research Fellowship, CCRF, offering an amount of Rs. 50,000/- per year to each of five full time research scholars of Christ College who are not recipients of any other fellowship. Separate rooms are allotted for faculty engaged in major research projects. There are separate laboratories for both UG and PG programmes. The faculty are encouraged to attend orientation and refresher courses to be acquainted with modern research trends.

### **Resource Mobilization for Research**

The College has procured maximum amount from funding agencies like the UGC for research activities. During the last five years the College has conducted two international and eight national conferences/seminars. The Staff of the College has completed 36 research projects during the last five years with a total outlay of Rs. 1,22,75,186/-. Presently 11 projects are in progress with a total outlay of Rs. 71,85,700/-. The FIST scheme of DST has been sanctioned (Rs. 80 lakhs) to Christ College, for the development of the Departments of Physics, Chemistry and Zoology.

### **Research Facilities**

All the Departments are supplied with sufficient computer facilities, internet connectivity, WiFi routers and other electronic gadgets. The library is computerized and has a collection



of 70000 books, nearly 150 CD ROMs, and internet connectivity in nearly 25 PCs. Journals subscribed through DELNET and INFLIBNET facility is accessible. A computational work station has been installed for doing research related to theoretical Physics and theoretical Chemistry.

### **Research Publications and Awards**

The faculty have presented around 68 papers in international / national / regional level seminars and attended more than 243 seminars in these five years. Around 175 research papers in various international/national peer reviewed journals, and more than 20 books and book chapters on various subjects have been published by the faculty in the last five years. The publications in the proceedings of national and international conferences are extra. The students are also motivated to develop their research sensibility by encouraging them to participate and present research papers in seminars and taking up projects. More than twenty awards and recognitions like Best Researcher Award, Best Paper Award, Best Teacher Award, Best NSS Programme Officer Award, etc. were won by the faculty. The Young Scientist Award won by Dr. Sudhikumar A. V. of Zoology Department, instituted by DST, is a special recognition to be mentioned among these.

### **Consultancy**

Consultancy services are offered by faculty of various Departments, especially of science subjects. The faculty are given the freedom and encouragement to utilize their expertise for the benefit of the society, provided there is no disruption in their core duties of teaching and research. Some of the faculty are involved in the activities of Kerala Bio Diversity Board, Regional Geological Board for Mining, the Committee to study on Landslides etc. Even though the College has not yet entered into a formal agreement of consultancy with various industrialists, it keeps good rapport to render the expertise of its faculty for their needs, which may not be remunerative. One of the faculty has extended his expertise to design a technique to remove the iron impurities from silica powder in the manufacture silicon carbide in the industrial unit, “Universal Carborandum Limited, Kalamassery”. Apart from these, the beneficiaries of most of the consultancy services are the public and the staff and students of local schools. The faculty also render their expertise in certain paid and unpaid activities like preparing question papers, designing new programmes, and modifying syllabus, and acting as subject experts in interview panels, etc.

### **Extension Activities and Institutional Social Responsibility**

Extension activities are rendered mainly through the voluntary organizations like NSS, NCC, CSA, Imago etc. Elaborate efforts are made by these organizations to be of service to the local community, society and the nation. The extension programmes may be categorized as educational, social, and environmental. As part of such activities, awareness programmes related to Environment protection and Conservation of Biodiversity, classes on the importance of organ donation, green living, national integration etc and medical camps and blood donation camps in association with the IMA etc. are conducted. The outreach programmes by the Department of Social Work deserve special mention in this context. Street plays for sensitizing the society on burning issues like drug addiction, road safety, communal harmony etc., Children’s Summer Camp, Training Programme for Trainers, Skill Development Programme for higher secondary school students, community living camp and visits to old age homes induce a sense of social responsibility among the students. There are extension programmes initiated by the students and faculty under the banner of various Clubs, Departments and Institution which promote true citizenship and social responsibility in the students.





### **Collaborations**

The PG Departments select premier centres of expertise like IIT Delhi, NIIST Thiruvananthapuram, CMFRI Cochin, KFRI Peechi, Amala Institute of Medical Sciences, Thrissur, CUSAT, C-MET, Kerala Agricultural University, etc. for the project work of their students. The faculty also involve in some collaborative work with reputed research firms, to pursue their research activities. Some of the centres are LIAG, Hanover Germany, PRL, Ahmedabad, French Institute, Pondicherry, NANSEN Norway, Kerala Forestry College, Mannuthy, etc. Apart from these, the seminars, workshops and other academic events also pave the way for collaborative interactions with research establishments.

### **INFRASTRUCTURE AND LEARNING RESOURCES**

The infrastructural facilities play a vital role in the achievement of Institutional objectives. A calm and peaceful atmosphere will support the academic endeavours in the Institution. The College is situated at a comfortable distance from the heart of Irinjalakuda town, but within convenient proximity. The main buildings of the College rest in the shades of a lush green garden, which itself is an abode of a variety of rare and endangering species of shrubs and herbs. All the hostels are within the campus, at very short distances from the academic and administrative blocks.

### **Physical Facilities**

The twenty Departments and eighty- plus class rooms are located in five three-storeyed buildings. The College has a very spacious Auditorium, rich Library, a Seminar Hall, Home Theatre with multi-media audio visual facility, an air conditioned Conference Hall cum Seminar Hall, IQAC Office, Health Club and Canteens. Separate laboratories are provided for all UG, PG and Research programmes. Availing financial support from funding agencies and utilizing management fund laboratories, are enriched with necessary modern and sophisticated equipment. Recently, the College received DST-FIST grant for purchasing modern equipment. Separate rooms are provided for faculty doing major research projects. There are four Computer Labs and one Language Lab with modern software and accessories. Moreover, there is a GIS lab in the Geology Department and a Computational Lab in the Physics Department. The Zoology and Geology Museums, which may not be common in affiliated colleges, are adorned with rare species of specimen and stuffed animals. They attract a large number of students of various schools in the district. The well-equipped Water Analysis Lab is serviceable to the public also. The Administrative Office is fully automated with competent software to meet all transactions.

A separate retiring room with a sick room is provided for girl students. The College has two canteens with spacious covered outdoor seating and a UGC sponsored Day Care Centre, and covered parking area for the vehicles of students and faculty. The College offers hostel facilities within the campus for girls and boys. Teachers are offered stay at the hostels and staff quarters. Further extension of the hostels is on the card.

The College gives prime importance to enviro-friendly sustainable development. Taking into account the water scarcity which may arise during the summer, rainwater harvesting and water recharging mechanism are introduced. Solar panels for power generation have been installed as part of energy conservation drive. The Botanical garden is maintained by the Department of Botany and *Bhoomithrasena* Club. "Santhisthal" (twenty cents of land with lot of RET plants) is managed by the Botany Department and Biodiversity Club. The College also houses office for NCC and provides a room for counselling of the students. Another feature of the College is its beautiful chapel.



The College offers ample facilities for the development of sports and games also. It has an athletics stadium with 8 x 400 track, football stadium with gallery and pavilion, two basketball courts, two volley ball courts, separate facilities for handball, cricket and hockey courts and a 10 metre indoor shooting range. It provides separate coaches for almost all the major games which is a special feature of this College. The College has sports teams for men and women in Athletics, Football, Volleyball, Basketball, Handball, Cricket, Gymnastics, Shooting, Boxing, Body building, Chess, Ball and Shuttle badminton, Lawn and Table Tennis, Archery, Cross country etc. It has Sports Hostels in Football and Athletics. There are three Health Clubs-one in the academic block of the College, one in the men's hostel and one in the BPE Department. The various infrastructural facilities are extended to neighbouring schools and other institutions, for conducting sports meets.

### **Library as a Learning Resource**

The College considers the Library as the main source of knowledge and information and takes all efforts to update the same. A Library Advisory Committee with Principal as Chairman has been constituted for its smooth functioning. The library is a spacious two-storeyed building which is well ventilated and naturally lighted. Furnished with traditional teakwood furniture it can accommodate 300 plus persons. Broad sections of the library are stack room, reference section, journals section, periodicals section, and reading room. The book transactions are fully computerized and their search is automated using electronic search system. Bar coding system has been implemented and issue of books is recorded using scanners. The library has a collection of 70000 books, more than 1000 reference books and nearly 150 CD ROMs. Book-student ratio is nearly 35:1. It has DELNET and INFLIBNET access in approximately 20 PCs and internet café with unlimited download facility. A reprography unit is functioning in the internet café.

### **IT Infrastructure**

There has also been an increased integration of education technology. The College has four computer labs and the total number of computers including laptops is 264. The student computer ratio is 8:1. All Departments are supplied with sufficient number of computers and projectors. LCD projectors are made available in PG and final year UG classes. Many Departments have LED TVs and LCD projectors. All Departments have internet connectivity with WiFi facility and LAN connectivity with the Administrative Office, Principal's Office and IQAC Office. ICT enabled teaching technologies like smart boards and touch screen projectors are provided. The College has an internet café with unlimited download facility for students.

### **Maintenance of Campus Facilities**

The well maintained semi-circular garden in front of the main block, and the beautiful landscape of the campus arouse the creativity of the students and provide a conducive atmosphere for learning. The Management has appointed supporting staff for the upkeep and maintenance of these facilities. The expansion of infrastructure is very much in line with the growing demand for academic and other purposes. In order to accommodate the newly started programmes during the reporting period, new class rooms and Departments (approximately 3600 Sq. M), attached with toilet facilities and other amenities have been constructed. Elevation and extension of the existing blocks has also been done. The College has entered into an Annual Maintenance Contract with service providers for lab equipment, computers and other computer accessories and also for the service of computer technicians. The Management makes ardent efforts to procure funds required for the maintenance of its infrastructural facilities and developmental activities from various sources.



## STUDENT SUPPORT AND PROGRESSION

### **Student Mentoring and Support**

Majority of the students hail from backward areas and belong to middle class socio economic backgrounds. The class teacher student interactions help to identify such limitations and direct them for mentoring or counselling to overcome their limitations. Slow/Advanced learners are given remedial/enrichment classes. The scholarship section of the College helps to avail all welfare schemes/ grants offered by the State and Central Governments. Apart from these the College offers many scholarships, endowments, free-ships, relaxations in tuition fee and hostel fees, free noon meals, financial aid, etc. to the needy students directed by the class teachers. The policy of the College is that no student admitted to it should stop his/her studies due to financial constraints. The College has instituted 161 endowments and cash awards for students, on the basis of merit, which are sponsored by well-wishers and retired teachers. On the average every year 60% of students avail some kind of financial assistance sponsored by various agencies. The Equal Opportunity Centre sponsored by UGC provides coaching classes for personality development, communication skills and basic computer education (*IT Vijnan*). The College also conducts coaching classes for entry to State and Central services, bank tests and NET/JRF examinations conducted by UGC/CSIR.

There are curricular and extracurricular Clubs like Quiz Club, Science Club, Film Club, Tourism Club, Debate Club, Biodiversity Club, Bhoomithrasena, Women's Development Cell, Anti-ragging Committee, NSS, NCC, CSA, IMAGO, Departmental Associations etc., in the College. All of them function effectively to develop the talents of the students. Some of the members of the staff are appointed as Fine Arts coordinators of the College who take the lead role in preparing the students for various cultural competitions. The College has a strong band of literary and cultural talents who has won top positions in the inter collegiate competitions.

The College provides ample infrastructural facilities for sports competitions. The University athletic meet of 2014 was conducted at the College Athletic Stadium. The College emerged as winners with excellent records. The College has men and women teams in Athletics, Football, Volleyball, Basketball, Handball, Cricket, Gymnastics, Shooting, Boxing, Body building, Chess, Ball and Shuttle badminton, Lawn and Table Tennis, Archery, Cross Country etc. The Kerala State Sports Council provides financial support to the College for football and athletics.

The input in academic, cultural and sports fields should be supplemented with proper life guidance programmes for the integral development of the person. Therefore College arranges value education classes on every week and organizes life orientation programmes occasionally which are aimed at the holistic development of the students.

### **Student Progression**

On an average, the College maintains a consistent record of 80% pass in UG programmes and more than 90% pass in PG programmes, in the University examinations. Around 65% students progress to higher studies. The Career Guidance and Placement Cell organizes various activities like soft skills training, interview techniques, etc. that make the students more employable. A remarkable upward trend is observed in the number of placements during last four years.

### **Student Participation and Activities**

The Students' Union is elected every year. It organizes all extra-curricular activities under the guidance of the Staff Advisor, Fine Arts Coordinator, Staff Editor and Sports and



Games Coordinator. The Student Editor brings forth a magazine every year. The College is a frequent winner in the University cultural competitions.

## **GOVERNANCE, LEADERSHIP AND MANAGEMENT**

### **Institutional Vision and Leadership**

The Vision and Mission statements distinctly proclaim the Institution's commitment to the society and to the Nation. All the programmes are planned and organized with a view of achieving this Vision. The Institution has been transferring this visionary leadership to its stakeholders since the day of its inception and has succeeded in building up a systemic relationship with them. The Institution gives due weightage to their suggestions and feedback in all matters related to planning and implementation of initiatives.

### **Strategy Development and Deployment**

The smooth functioning of the College at Governance, Leadership and Management levels is ensured by statutory bodies as well as advisory bodies. Each Department is invested with administrative autonomy and is at the same time regulated by the College Council. Monthly planning and evaluation meetings of the faculty, non teaching staff, IQAC, Staff Council, Governing Body and the PTA, offer a platform to present and discuss the implementation of developments and deploy the strategies of the College. An adequate leadership is ensured in activities of all curricular and extracurricular bodies by allotting faculty as the coordinators and including student representatives in them. This distributional and operational autonomy guarantees decentralized governance.

### **Faculty Empowerment Strategies**

The Institution conducts programmes to enhance the competency of its faculty. The Faculty regularly attend orientation and refresher courses which help them update themselves. The Management encourages the faculty to utilize the FDP scheme of UGC and pursue research through projects to increase their mastery in the subject. The different welfare schemes enjoyed by the faculty and staff include on campus residential facility, interest free loans, advance payment of salary on request, seed money to initiate research projects.

Feedbacks from student community on teaching learning process and infrastructural facilities, the suggestions of the faculty, scrutiny of the results in the University examinations and the periodical quality checks made by the IQAC help the Institution to assess on its academic and administrative standards and to make necessary modifications for a better functioning.

### **Financial Management and Resource Mobilization**

The major financial resource of the Institution for aided programmes is the UGC. The Management's contribution along with the support from the State Government and fees of Self- financing programmes are used to improve the infrastructural facilities of the College. Also, the goodwill of the alumni and the well wishers of the College are tapped for the developmental projects of the College. The Administrative Office working under the supervision of the Senior Superintendent, Head Accountant and the administrative control of the Principal implements all tasks related to finance and accounting. Annual internal and external auditing guarantees financial transparency. Any deficit in the annual budget is met by the Management. The Institution is also getting the financial support offered by DST-FIST grant and also through research projects sanctioned to faculty for enhancing research facilities.



### **Internal Quality Assurance System**

The College constituted the IQAC on 20<sup>th</sup> November 2003, immediately after the accreditation by NAAC. It has a clear Vision and Mission and has been evaluating, refining and auditing the quality assurance mechanism of the College since its inception. It has been instrumental in introducing quality parameters in different academic and administrative policies of the Institution. The AQAR submitted to the NAAC provides the Institution the opportunity to review its strengths, weaknesses, opportunities and challenges every year, and to make a timely intervention if shortcomings are detected.

## **INNOVATIONS AND BEST PRACTICES**

### **Environmental Consciousness**

From the day of inception, the Institution has always practiced and promoted activities increasing environmental consciousness and biodiversity protection, through various bodies like *Bhoomithrasena*, Biodiversity Club, Adventure Club, Tourism Club, etc. The initiative to start the UGC sponsored PG Diploma Programme in Sustainable and Green Energy Technologies, is a novel one which no other College in the affiliated University has taken. The College has constructed Thadayanas (Preventive dams) for water harvesting and ground water recharging. As part of its interest in environmental protection, the College conducts energy audit, water audit, waste audit and vegetation/ecological audit of the campus. The Seminar Hall and five classrooms along with various offices like College Office, Principal's Office, IQAC Office and Exam co-ordination room, are exclusively working on solar energy. The two month average solar energy production is 1034 units. During monsoon season, 70% of the total water usage is from rainwater, which helps to save power and water. The waste generated from the College is classified in to four groups as biodegradable waste, non-biodegradable waste, hazardous liquid waste and non-hazardous liquid waste, and of them 75% are degradable. The College celebrates special days like World Environment Day, Earth Day, Ozone Day and National Science Day. During the World Cup Football Tournament 2010 & 2014, the College came forward with an innovative awareness programme- that of planting saplings in many neighboring institutions and Government offices with the slogan "One Goal One Tree". The attempts of the College to maintain an eco-friendly campus have been widely appreciated. The following awards won by the College are proof of this:

- The Kerala State Energy Conservation Award in 2011 among the colleges of the State, instituted by the Energy Management Centre, Department of Power, Government of Kerala.
- The Energy Conservation Award for the year 2011, for outstanding contribution in the field of energy conservation, instituted by Kerala State Electricity Board
- The prestigious Green Award instituted by the Kerala State Biodiversity Board for valuable contributions to the conservation of biodiversity during the year 2011-12
- The First Haritha Award instituted by the University of Calicut in 2014.
- The Biodiversity Club of the College won the award for the "Best Biodiversity Club" instituted by the Biodiversity Board, Government of Kerala in 2014-15.

### **Innovations**

The Institution has introduced a number of innovations in infrastructure, teaching and learning, administration, student support and progression. All administrative work is made easier through computers. The *IT Vijnan* Programme aiming at complete computer literacy, enrichment programmes for the upliftment of weaker sections, value education and life orientation classes for the holistic development of students are some of the attractions of the College. The programmes organized by NSS, NCC, CSA and other co curricular and extracurricular bodies instill social responsibility in students' minds and enable them to take part in nation building.



## **Best Practices**

### **Building Bridges Across the Rural-Urban Gap**

The College with its Vision of moulding an enlightened generation has been imparting quality higher education to the students, through its unique and innovative methods since the day of its inception. Even though the College is situated in a semi urban area, most of its students are from rural pockets and economically weaker sections. The Institution plays a key role in illuminating the hearts and minds of this youth through education and developing their inborn talents through various co-curricular and extracurricular activities so as to attain holistic development.

### **Eco-friendly Biodiversity Campus**

The College is deeply committed to communicate the message of environmental consciousness and biodiversity protection, to the students and to the community through its multifaceted activities. The laurels won by the College during the last five years substantiate its dedication and appreciate the efforts taken in this regard.

## **SWOC ANALYSIS**

### **Strength**

- A clear Vision and noble Mission on the educational policy.
- Supporting, cordial and participatory Management.
- Strong support and acceptance from the local people, alumni and PTA.
- Serene, green, eco-friendly, pollution free campus which offers pleasant academic environment.
- Excellent infrastructure: Library with N-List and DELNET, Laboratories, ICT facilities, Stadium, Play Grounds, Auditoriums, Museums, etc.
- Faculty: Vibrant, motivated, dedicated and committed faculty which is blend of young and experienced potentials. Faculty with good publication records. Sixteen of them are with 'h' index. Five of them are trained in international institutions. The Principal and good number of faculty are members of the decision making academic bodies of the University from syndicate to Board of Studies level.
- Student support service: Remedial teaching, Bridge courses, mentoring, fee concessions, free-ships, institutional scholarships, and endowments. Coaching classes for NET/JRF competitive exams, bank tests and for entry to State and Central Services.
- Add-on courses, innovative PG Diploma programmes, softskill trainings, personality development programmes to enhance employability.
- Strengthening and nurturing the students in extracurricular, sports and games competitions. Frequent winners at University and State levels.
- Value education and life orientation classes for the holistic development of students.
- Good ambience for research with six research departments, an array of experienced and motivating supervising teachers.
- DST-FIST supported College.
- A systematic feedback mechanism.
- Variety of extension activities to induce social commitment among students.
- An Institution striving for sustenance and excellence in all fields of higher learning.

### **Weakness**

- Lack of adequate national and international linkages.
- The College is located in remote town and non industrialized location and less scope for consultancy services.
- Placement opportunities are weak.
- Rigidity of the affiliating system.



- Over politicization of higher education scenario that very often interrupt the fluent academic schedule of the College.

### **Opportunities**

- The College has potential to elevate to the status of Centre of Excellence, autonomous and later deemed university which facilitates academic and administrative flexibility.
- Programmes/Courses: New generation courses to attract Indian and international students. More Add-on courses, PG Diploma programmes to increase the employability.
- Collaborative Programmes: More Collaborations with scientists and faculty of reputed universities and institutions for research. Enter into MoU with national and international institutions for starting new courses, twinning programmes.
- Extension Activities: Extension of the research finding and activities from 'lab to land'. More community oriented programmes.
- New projects: With the support of alumni and UGC construction of an indoor stadium and research complex.

### **Challenges**

- Garnering sufficient financial resources for development of infrastructural facilities.
- Increase the employability of the traditional courses.
- Attracting the employers for conducting campus recruitment drives.
- Even in sought after courses difficulties to inspire students for progression to higher studies including research programmes.

### **Future Plan**

- To introduce new generation job oriented courses apart from the traditional courses.
- To introduce job oriented programmes in collaboration with industry and neighbouring institutions.
- Enter into MoU to enhance the College to a centre of higher learning.
- Twinning programmes with foreign universities.
- Enhance more Departments to the status of research centres.
- Acquire more external funding for research through minor and major research projects.
- Interdisciplinary and collaborative research.
- Conversion of the campus to a plastic free and zero waste campus.
- Introduction of courses like B Voc to offer students more employability.
- Construction of sports complex and research complex with multimedia conference hall and virtual library.
- Christ College Daya Nidhi: The existing support by the College to the economically weak students to be opened in a new scheme – “Christ College Daya Nidhi”.
- More outreach programmes for local community. Adoption of society for their social upliftment by the College.
- Measures to sensitize the essentiality of environmental and biodiversity protection in the local community.
- To organize an all India scientific, industrial and cultural exhibition in connection with the Diamond Jubilee celebration of the College.
- Enhancement of the College to the status of “centre of Excellence”.







# *Profile of the Institution*





# Profile of the College

### 1. Name and Address of the College:

Name	: <b>CHRIST COLLEGE</b>
Address	: Irinjalakuda- 680125
City	: Thrissur
Pin	: 680125
State	: Kerala
Website	: www.christcollegeijk.edu.in

### 2. For Communication:

Designation	Name	Telephone with STD code	Fax	Email
Principal	Rev. Dr. T. M. JOSE	O: 04802820005 R: 04802825384 M: 9349823372	04802831552	christcollegeijk@gmail.com
Vice Principal	Prof. Babu Antony	O: 04802825258 R: 04802704702 M: 9895227282		babuamenachery@gmail.com
	Prof. K.A. Davis	O: 04802825258 R: 04802704702 M: 9400674714		daviskallan89@gmail.com
Steering Committee Coordinator	Dr. Davis Antony Mundassery	O: 04802825258 R: 0487 2348166 M: 9400548166		dmundassery@yahoo.com

### 3. Status of the Institution:

- Affiliated College
- Constituent College
- Any other (specify)

### 4. Type of Institution:

- a. By Gender
  - i. For Men
  - ii. For Women
  - iii. For Co-Education
  
- b. By Shift
  - i. Regular
  - ii. Day
  - iii. Evening

### 5. It is a recognized minority institution?

- Yes
- No



If yes specify the minority status (Religious/linguistic/ any other) and provide documentary evidence.

Religious -Minority (Certificate Enclosed)

6. Sources of funding:

Government

Grant-in-aid

Self-financing

Any other

7. a. Date of establishment of the college:

18/06/1956

b. University to which the college is affiliated / (If it is a constituent college)

University of Calicut

c. Details of UGC recognition:

Under Section	Date, Month & Year (dd-mm-yyyy)	Remarks (If any)
i. 2 (f)	28-10-1968	Copy Enclosed
ii. 12 (B)	Yes	

d. Details of recognition/approval by statutory/regulatory bodies other than UGC (AICTE, NCTE, MCI, DCI, PCI, RCI etc.) : Not Applicable

8. Does the affiliating university Act provide for conferment of autonomy (as recognized by the UGC), on its affiliated colleges?

Yes  No

If yes, has the College applied for availing the autonomous status?

Yes  No

***The College has been recommended by the Government of Kerala and the University for enhancing to autonomous status and the approval of UGC is awaited.***

9. Is the college recognized

a. by UGC as a College with Potential for Excellence (CPE)?

Yes  No

If yes, date of recognition: Not Applicable

***The College has been recommended to UGC by the University for considering it as Centre with Potential for Excellence.***

b. for its performance by any other governmental agency?

Yes  No



If yes, Name of the agency:

FIST (DST, Govt. of India), Date of recognition: Oct-2012

10. Location of the campus and area in sq.mts:

Location *	Semi-urban
Campus area in sq. mts.	258999 m <sup>2</sup>
Built up area in sq. mts.	13952.74 m <sup>2</sup>

(\* Urban, Semi-urban, Rural, Tribal, Hilly Area, Any others specify)

11. Facilities available on the campus (Tick the available facility and provide numbers or other details at appropriate places) or in case the institute has an agreement with other agencies in using any of the listed facilities provide information on the facilities covered under the agreement.

- Auditorium :
- seminar complex with infrastructural facilities : 
  - play ground (14)
  - swimming pool
  - gymnasium (3)
- Sports facilities:
  - Swimming pool (25x10m): 2
  - Indoor Stadium: 1 No (Two basketball courts, Volleyball court and Tennis court)
  - Indoor 10 m shooting range: 1
  - Basketball court: 3 (Mud-1 and concrete-2)
  - Hockey field: 2
  - Volleyball court: 4
  - Kho-Kho court: 1
  - Khabaddi court: 1
  - Shuttle Badminton court: 1
  - Ball Badminton court: 1
  - Football field: 2 (one with gallery seating capacity of 5000)
  - Table Tennis Board: 7
  - Cricket field: 1
  - Cricket nets for practice: 3
  - Handball court: 2
  - 400m X 8 lanes standard track with gallery seating capacity of 50,000
  - Gymnastic Hall: 1
  - Mini Indoor Hall (16x13)M: 2
  - Weight training hall: 2
- Gymnastic Equipment:
  - Gymnastic mats: 100
  - Parallel bars: 2
  - Horizontal bars: 2



- Uneven bars: 1
- Wall bars: 1
- Roman rings: 1
- Balance beam: 1
- Pommel horse: 1
- Trampoline: 1
- Spring board: 1
- Floor mats spread: 1 (14m X 14m)
- Hostel:
  - Boys' hostel
    - i. Number of hostels: 1
    - ii. Number of inmates: 344
    - iii. Facilities (mention available facilities): Situated in the campus. Faculty as wardens and counsellors. Reading room with news papers and power connectivity for personal computers/ laptops, Gymnasium, Volleyball and basketball court, bath attached rooms for needy students, Garden lawn for study and outdoor gatherings, concrete benches, Multi-channel television system. continuous supply of cold water, spacious mess hall, mess manager,
  - Girls' Hostel
    - i. Number of hostels: 1
    - ii. Number of inmates: 155
    - iii. Facilities (mention available facilities): Situated in the campus. Faculty as wardens and counselors, Reading room with news papers and power connectivity for personal computers/ laptops, Multi-channel television system, Internet connection, Badminton court, Chapel service, Mess hall, Mess manager, Own vehicle for emergency use.
  - Working women's hostel: Nil
    - i. Number of inmates:
    - ii. Facilities (mention available facilities): Reading room with news papers, Multi-channel television system, Internet connection, badminton court, chapel service.
- Residential facilities for teaching and non-teaching staff (give numbers available - cadre wise):  
Campus accommodation provided for needy faculty at the hostels- 12 Assistant Professors (Gents) and 5 Assistant Professors (Ladies)
- Cafeteria - Two
  - Health centre: Doctors on call. Hospital within one kilometer from the College.
  - First aid ✓, Inpatient, Outpatient ✓, Emergency care facility ✓
  - Ambulance, Health centre staff : Nil

Qualified doctor	Full time	Part-time
Qualified Nurse	Full time	Part-time
- Facilities like banking, post office, book shops : ✓



- Transport facilities to cater to the needs of students and staff: Nil
- Animal house: ✓
- Biological waste disposal: ✓
- Generator or other facility for management/regulation of electricity and voltage; ✓
- Solid waste management facility ✓
- Waste water management : ✓
- Water harvesting: Hostels are equipped with rooftop water harvesting system. ✓

12. Details of programmes offered by the college (Give data for current academic year)

Sl. No.	Programme Level	Name of the Programme/ Course	Duration	Entry Qualification	Medium of instruction	Sanctioned/ approved Student strength	No. of students admitted
1	Under-Graduate	Mathematics	3 Years	Plus Two	English	48	47
2.	Under-Graduate	Physics	3 Years	Plus Two	English	48	49*
3.	Under-Graduate	Chemistry	3 Years	Plus Two	English	48	48
4.	Under-Graduate	Zoology	3 Years	Plus Two	English	36	36
5.	Under-Graduate	Geology	3 Years	Plus Two	English	36*	37*
6.	Under-Graduate	Comp. Science	3 Years	Plus Two	English	36*	32
7.	Under-Graduate	Psychology	3 Years	Plus Two	English	36*	36
8.	Under-Graduate	Functional Eng.	3 Years	Plus Two	English	40	38
9.	Under-Graduate	Economics	3 Years	Plus Two	English	60	60
10.	Under-Graduate	Malayalam	3 Years	Plus Two	English	40	40
11.	Under-Graduate	English	3 Years	Plus Two	English	24*	40
12.	Under-Graduate	Commerce (Aided)	3 Years	Plus Two	English	60	61*
13.	Under-Graduate	Commerce - A Batch	3 Years	Plus Two	English	60*	60
14.	Under-Graduate	Commerce - B Batch	3 Years	Plus Two	English	50*	50
15.	Under-Graduate	Commerce- C Batch	3 Years	Plus Two	English	60*	58
16.	Under-Graduate	BCA	3 Years	Plus Two	English	36*	33
17.	Under-Graduate	BSW	3 Years	Plus Two	English	39*	39
18.	Under-Graduate	BPE	3 Years	Plus Two	English	41*	41
19.	Post-Graduate	Mathematics	2 years	UG Degree	English	19*	19
20.	Post-Graduate	Physics	2 years	UG Degree	English	12	12
21.	Post-Graduate	Chemistry	2 years	UG Degree	English	12	12
22.	Post-Graduate	Zoology	2 years	UG Degree	English	12	12
23.	Post-Graduate	Envi. Science	2 years	UG Degree	English	12	12
24.	Post-Graduate	Botany	2 years	UG Degree	English	12	12
25.	Post-Graduate	Geology	2 years	UG Degree	English	12	10
26.	Post-Graduate	Statistics	2 years	UG Degree	English	12	7
27.	Post-Graduate	Economics	2 years	UG Degree	English	20	20
28.	Post-Graduate	History	2 years	UG Degree	English	20*	20
29.	Post-Graduate	English	2 years	UG Degree	English	15	15
30.	Post-Graduate	Commerce	2 years	UG Degree	English	20	20
31.	Ph. D.	Zoology		PG Degree	English		8
32.	Ph. D.	Chemistry		PG Degree	English		16
33.	Ph. D.	Physics		PG Degree	English		11
34.	Ph. D.	Envi. Science		PG Degree	English		7
35.	Ph. D.	History		PG Degree	English		7



36.	Ph. D.	Economics		PG Degree	English		8
37.	Add- on Course	Web Designing	1 year	Plus Two	English		17
38.	Add- on Course	Yoga Therapy and Physical Fitness	1 year	Plus Two	English		40
39.	Add- on Course	Geoinformatics	1 year	Plus Two	English		32
40.	Add- on Course	Seed Production and culturing of edible and ornamental fishes	1 year	Plus Two	English		24
41.	Add- on Course	Journalism	1 year	Plus Two	English		20
42	Any Other (specify and provide details)	Enrichment programmes, and Skill Development programmes organized by Departments and various curricular and extracurricular clubs					

\* Yearly additional seats/ marginal increase granted by the University.

13. Does the college offer self-financed Programmes?

Yes  No

If yes, how many?

13

14. New programmes introduced in the college during the last five years if any?

Yes	<input checked="" type="checkbox"/>	New Programmes Introduced in self-financing stream :10 Additional Batches to Existing programme : 2 New Programmes introduced in Aided stream : 1 Research Centres :4
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15. List the departments: (respond if applicable only and do not list facilities like Library, Physical Education as departments, unless they are also offering academic degree awarding programmes. Similarly, do not list the departments offering common compulsory subjects for all the programmes like English, regional languages etc.)

Faculty	UG	PG	Research
Science	Mathematics Physics Chemistry Zoology Geology Computer Science Psychology	Mathematics Physics Chemistry Zoology Geology Environmental Sci. Botany Psychology Statistics	Physics Chemistry Zoology Geology and Environmental Sci.
Arts	Economics Functional English English Malayalam	Economics English Literature History	Economics History
Com.	B.Com. (4 Batches)	M.Com.	
Any Other (Specify)	BPE BSW BCA		Physical Education





16. Number of Programmes offered under (Programme means a degree course like BA, B.Sc., MA, M.Com.)

a. Annual system

b. Semester system

c. Trimester system

17. Number of Programmes with

a. Choice Based Credit System

b. Inter/Multidisciplinary Approach

c. Any other (specify and provide details)

18. Does the college offer UG and/or PG programmes in Teacher Education?

Yes  No

19. Does the college offer UG or PG programme in Physical Education?

Yes  No

UG Programme - BPE

a. If yes, Year of Introduction of the programme(s) (dd/mm/yyyy)  
Started in 23/10/1990 as B Sc in Physical Education and converted as BPE programme in 06/10/1994

Number of batches that completed the programme : 23

b. NCTE recognition details (if applicable) : Not Applicable

Notification No.: .....

Date: ..... (dd/mm/yyyy)

Validity:.....

c. Is the institution opting for assessment and accreditation of Physical Education Programme separately?

Yes  No



20. Number of teaching and non-teaching positions in the Institution

Positions	Teaching faculty						Non-teaching staff		Technical staff	
	Professor		Associate Professor		Assistant Professor		*M	*F	*M	*F
	*M	*F	*M	*F	*M	*F	*M	*F	*M	*F
Sanctioned by the UGC / University / State Government			41	3	19	13	36	2	2	
<i>Yet to recruit</i>					#2					
Sanctioned by the Management/ society or other authorized bodies			5	3	12	35	4	3	2	
<i>Yet to recruit</i>										

#The Government consent is awaited for filling up the vacancies occurred due to retirement on 31-5-2014

\*M-Male \*F-Female

21. Qualifications of the teaching staff:

Highest qualification	Professor		Associate Professor		Assistant Professor		Total
	Male	Female	Male	Female	Male	Female	
Permanent teachers							
D.Sc./D.Litt.	---	---	---	---	---	---	---
Ph.D.	---	---	24	1	10	5	40
M.Phil.	---	---	10	1	4	4	19
PG	---	---	8	1	4	4	17
Temporary teachers							
Ph.D.	---	---	---	---	2	1	1
M.Phil.	---	---	---	---		1	1
PG	---	---	---	---	10	35	45
Visiting Faculty							
Ph.D.	---	---	3	3	---	---	6
M.Phil.	---	---	1	---	---	---	1
PG	---	---	1	---	---	---	1

22. Number of Visiting Faculty /Guest Faculty engaged with the College.

55

23. Furnish the number of the students admitted to the college during the last four academic years.

Categories	Year 1 2013- 14		Year 2 2012- 13		Year 3 2011- 12		Year 4 2010- 11	
	Male	Female	Male	Female	Male	Female	Male	Female
SC	102	232	98	207	104	193	98	177
ST	12	20	10	14	5	7	4	3



OBC	277	404	254	330	155	276	144	335
General	390	478	265	438	393	434	387	389

24. Details on students enrollment in the college during the current academic year:

Type of students	UG	PG	M. Phil.	Ph.D.	Total
Students from the same state where the college is located	805	171	-	11	987
Students from other states of India	Nil	Nil	Nil	Nil	Nil
NRI students	Nil	Nil	Nil	Nil	Nil
Foreign students	Nil	Nil	Nil	Nil	Nil
Total	805	171	-	11	987

25. Dropout rate in UG and PG (average of the last two batches)

UG  PG

26. Unit Cost of Education

*(Unit cost = total annual recurring expenditure (actual) divided by total number of students enrolled)*

(a) Including the salary component

(b) Excluding the salary component

27. Does the college offer any programme/s in distance education mode (DEP)?

Yes  No

If yes, a) is it a registered centre for offering distance education programmes of another University

Yes  No

b) Name of the University which has granted such registration.

c) Number of programmes offered

d) Programmes carry the recognition of the Distance Education Council.

Yes  No



28. Provide Teacher-student ratio for each of the programme/course offered

UG Programmes			PG Programmes		
Sl. No.	Programme	Ratio	Sl. No.	Programme	Ratio
1.	Mathematics	1:16	1.	Mathematics	1:4
2.	Physics	1:13	2.	Physics	1:3
3.	Chemistry	1:9	3.	Chemistry	1:4
4.	Zoology	1:10	4.	Zoology	1:4
5.	Geology	1:11	5.	Environmental Science	1:4
6.	Computer Science	1:20	6.	Botany	1:4
7.	Psychology	1:20	7.	Statistics	1:3
8.	Economics	1:30	8.	Geology	1:3
9.	Functional English	1:20	9.	English	1:4
10.	Malayalam	1:20	10.	Economics	1:7
11.	English	1:40	11.	History	1:5
12.	Commerce	1:30	12.	Commerce	1:5
13.	BCA	1:25			
14.	BSW	1:16			
15.	BPE	1:20			

29. Is the college applying for

Accreditation:

Cycle 1  Cycle 2

Cycle 3  Cycle 4

Re-Assessment:

*(Cycle 1 refers to first accreditation and Cycle 2, Cycle 3 and Cycle 4 refers to re-accreditation)*

30. Date of accreditation\* (applicable for Cycle 2, Cycle 3, Cycle 4 and re-assessment only)

Cycle 1: 31/09/2003 Accreditation Outcome/Result B++ level

Cycle 2: 31/12/2009 Accreditation Outcome/Result: A Grade with CGPA 3.02

**\* Kindly enclose copy of accreditation certificate(s) and peer team report(s) as an annexure.**

31. Number of working days during the last academic year.

199

32. Number of teaching days during the last academic year

*(Teaching days means days on which lectures were engaged excluding the examination days)*

179



33. Date of establishment of Internal Quality Assurance Cell (IQAC) : 20/11/2003

34. Details regarding submission of Annual Quality Assurance Reports (AQAR) to NAAC

AQAR (i) 05/10/2010

AQAR (ii) 02/12/2011

AQAR (iii) 26/09/2012

AQAR (iv) 26/09/2013

AQAR (iv) 26/02/2015





# *Criterion-wise Analytical Report*







## CRITERION I CURRICULAR ASPECTS

The Indian higher education today faces unprecedented challenges in the knowledge driven, competitive, global education market. Hence it imperative that each institution comes up with its own strategy to remain afloat and prove its worth as a vibrant and relevant presence. Within the constraints of University affiliated system of education, the College faces the challenge of up-gradation of curriculum. Undertaking this risk of inflexibility, the College has taken many innovative, empowering strides to make the students globally acceptable.

### 1.1 Curriculum Planning and Implementation

#### 1.1.1 State the vision, mission and objectives of the Institution, and describe how these are communicated to the students, teachers, staff and other stakeholders.

➤ **Our Motto:**

The ambition of any individual is to build an environment which helps to lead a meaningful life. The real light of education plays a vital role in achieving this. The motto of the College is ‘*Jeevitha Prabha*’, which means ‘Light of Life’. Through this light of education, the College aims at moulding our youth into intellectually competent, and spiritually mature, ‘finished products’, who are committed to the society and are capable of serving the nation.

➤ **Our Vision:**

An enlightened generation with its potential developed through quality higher education and moral value inculcation.

➤ **Our Mission:**

- To impart quality education, imbued with Indian ethos and enriched with universal values to the young growing generation.
- To mould our youth as intellectually competent, psychologically integrated and morally upright social beings.
- To train them as responsible citizens who will champion the cause of justice, love, truth and peace.
- To emancipate them from the clutches of ‘*adharmā*’ and ‘*ahamkāra*’ to true freedom and fraternity.

➤ **Our Objectives:**

- Formation of integrated human beings.
- Formation of committed and idealistic leaders.
- Formation of individuals who will be the light of the society and the salt of the earth.
- Formation of skilful, erudite and humane individuals.

The Vision, Mission and objectives of the College have been effectively communicated to the students, teachers, staff and all other stakeholders through various means.

- The detailed College Handbook and prospectus.
- The home page of the College Website ([www.christcollegeijk.edu.in](http://www.christcollegeijk.edu.in)).
- In the College Newsletters and other official publications.
- Vision and Mission, a sure topic of discussion in the value education classes.



- Display of Vision and Mission statements in all the Departments, class rooms, the library, prime locations in the campus and on the IQAC NEWS BOARD near the Principal's Office.
- Talks on this topic for newcomers to the College on the Initiation day.
- In the Principal's briefing to the newly appointed teachers.
- At the Parents' meetings, the Principal's address highlighting the Vision and Mission of the College.
- In interactive sessions of class teachers and students.
- Through the theme of the pledge taken by the Student Parliament.
- The Composition of the College Anthem in tandem with the Vision and Mission of the College.
- The rendition of the College Anthem at the beginning of important programmes.
- Drafting the Vision and Mission of each Department in unison with Vision and Mission of the College.

Every programme conducted in the College aims to imprint the Vision and Mission deeply into the hearts and minds of every one, and reminds them of the great values this Institution stands for.

#### **1.1.2 How does the Institution develop and deploy action plans for effective implementation of the curriculum? Give details of the process and substantiate through specific example(s).**

The Institution has developed a concrete action plan for the effective implementation of the curriculum which involves the following important steps:

- Displaying the University academic calendar for the year on the faculty's and students' notice boards.
- Ensuring that the prescribed syllabus for each programme is ready for reference in the Departments as well as in the library.
- Insisting that students have a personal copy of the syllabus for their reference.
- Preparing a general academic calendar by the IQAC every year, in tune with the University academic calendar, specifying expected monthly teaching days, dates of internal examinations, percentage of topics to be covered, date of completion of syllabus, tentative dates for completing students' assignments, seminar presentations, etc.
- Exhibiting this general academic calendar in all class rooms.
- Instructing the faculty to prepare an individual academic calendar in tune with the general academic calendar for each programme they engage.
- Holding Departmental meetings at the first level by the Heads of Departments to discuss the progress of the topics to be completed by the faculty.
- Conducting of periodical Staff Councils at the second level to evaluate the progress of the academic plan and suggest modifications, if needed.
- Convening the faculty meetings by the Principal at the end of each semester at the third level.
- Collecting a consolidated report from each Department at the end of each semester to ensure that the academic activities are conducted efficiently.

The preparation of the rank list of students seeking admission to various programmes is being conducted by the University, under the CAP. Certain hindrances that occurred in this process caused delay in starting the first semester classes. In case of insufficient teaching days to complete the syllabus due to any reason, including agitations by students'



organizations, the members of the faculty engage extra hours on week days or special classes on Saturdays.

### **1.1.3 What type of support (procedural and practical) do the teachers receive (from the University and/or Institution) for effectively translating the curriculum and improving teaching practices?**

As a procedural and practical support from the part of University, teachers receive objectives of the course, year wise course content of the syllabi, list of reference books and pattern of question papers.

- In order to improve the pedagogical skills of teachers and to acquaint them with new trends in various subjects, the Academic Staff College of the University conducts orientation programmes and refresher courses in all subjects.
- When changes in the pedagogy and curriculum are made, workshops and discussions are conducted by the University. For example, when the Choice Based Credit Semester System was introduced by the University for the UG programme, workshops were arranged to familiarize the members of the faculty with the new system.

The Institution extends full support to the teachers to improve their teaching practices. In connection with the implementation of the above mentioned semester pattern for UG programme, the IQAC of the College took the timely initiative to organize a two-day seminar on “Methodology of the New Curriculum, Challenges and Prospects”. Moreover it also conducted a two-day NAAC sponsored workshop on “Quality Sustenance in Higher Education: Challenges and Prospects of Academic and Research Transactions”. The following steps are initiated by the Institution to improve the teaching practices:

- Providing sufficient collection of books in the library on advanced topics. DELNET and INFLIBNET access are available in the library for downloading articles from reputed journals.
- Facilities in the science laboratories are improved according to the need of the new programmes. Internet connectivity in all Departments, LAN connectivity, ICT enabled teaching facility, setting up of Multimedia Language Lab, new Computer Lab, etc have been completed.
- In order to assimilate and update current developments, the Institution encourages teachers to increase their competencies by participating in and presenting research papers in national/international conferences and seminars, workshops, orientation programmes, refresher courses, etc. The College is generous in sanctioning duty leave to teachers in this regard.
- The Institution also encourages the Departments to organize various sponsored or self-funded academic meetings like seminars, conferences, workshops, invited talks, etc.

### **1.1.4 Specify the initiatives taken up or contribution made by the Institution for effective curriculum delivery and transaction on the Curriculum provided by the affiliating University or other statutory agency.**

- For effective curriculum delivery and transaction on the curriculum, professional personnel with good academic and research achievements are essential. The College Management strictly prioritizes the academic and research achievements of the applicants. In the appointment of the faculty, quality is the sole criterion for employment and not caste or creed. This is strictly adhered to in the selection of the faculty for both regular and self-financing courses.
- The Institution ensures the uninterrupted transaction of the teaching learning process by timely appointment of teachers.



- Very often, sufficient number of supporting staff is not sanctioned by the authorities for managing the academic activities. To balance this, the College Management supplements sufficient staff on contract basis, at their own cost.
- A well equipped library is essential to acquaint the faculty and students with new trends and developments in each subject. Every year the Institution takes special care to update the collection in the library.
- Other ICT enabled technologies like smart boards, touch screen projectors, LED TVs are used for final year UG and PG programmes. Other classes are also encouraged to use these facilities.
- The Timetable Committee prepares the general Timetable of the College, based on which the Heads of Departments plan various academic activities.
- Teachers are asked to strictly follow the general academic plan prepared by the IQAC and to prepare individual lesson plans accordingly, for each semester.
- The effective delivery and transaction of the curriculum in the class rooms, is also supplemented with many academic programmes, like invited lectures, seminars, career guidance programmes, soft skill development programmes, quiz competitions etc. by different Departments.

**1.1.5 How does the Institution network and interact with beneficiaries such as industry, research bodies and the university in effective operationalisation of the curriculum?**

The College is keen in interacting with and establishing networks with beneficiaries like industry, research Institutions and the University.

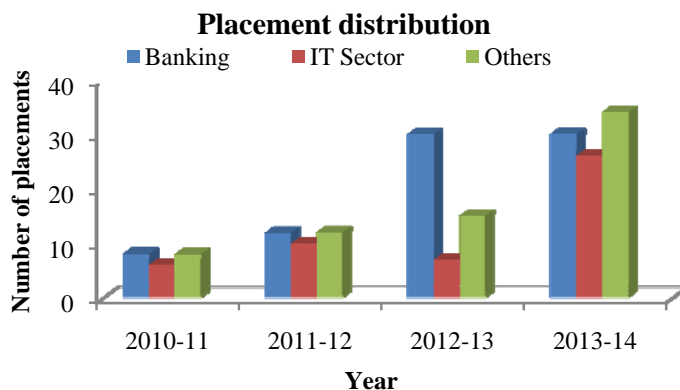
- Students are exposed to the requirements of the industry by inviting eminent industrialists for interactive sessions, and also by organizing seminars, conferences and workshops in collaboration with such agencies.
- Interaction with industry people facilitates industry internships, career planning and placement for students.
- The Institution insists upon visits to various industries and research bodies, so that students have a practical acquaintance of the knowledge disseminated in the class rooms.
- Students are given opportunity to do their project and dissertation work in many industrial and service sectors like Amala Institute of Medical Sciences, CUSAT, KILA, Kerala Solvent Extractions Limited, CMFRI, etc.
- Many of the faculty are actively involved in research activities and have undertaken major and minor research projects which connect the College with various research bodies. The following table shows the details of projects undertaken by postgraduate students in association with various industries/research bodies and institutions.

<b>Projects in Association with</b>	<b>2010-11</b>	<b>2011-12</b>	<b>2012-13</b>	<b>2013-14</b>
Industries	32	28	34	36
Research bodies	12	11	11	13
Educational Institutions	14	15	17	16

Requirements of the research bodies and industries are identified through these ventures and this enables us to suggest modifications in the existing curriculum, to the members of the various academic bodies of the University.



These initiatives of the College to interact and maintain good relations with some leading industrial and financial institutions have opened up avenues of conducting placement drives in the College. During the last five years, international auditors like KPMG, financial establishments like The South Indian Bank Ltd, The Federal Bank Ltd, and IT companies like The Wipro Technologies, TCS have conducted campus placement drives and recruited some of the students.



**1.1.6 What are the contributions of the Institution and/or its staff members to the development of the curriculum by the University? (Number of staff members/departments represented on the Board of Studies), student feedback, teacher feedback, stakeholder feedback provided, specific suggestions etc.**

The syllabi framed by the faculty of the College for various UGC sponsored programmes are listed below:

- Postgraduate Diploma in Disaster Management (2007-12) – Department of Geology.
- Postgraduate Diploma in Sustainable and Green Energy Technologies (2012-17) – Department of Physics.
- Add-on Courses conducted by various Departments.
  1. Tax Procedure and Practice (2007-‘12)- Department of Commerce.
  2. Communicative English (2007-12, 2012-‘17) - Department of English.
  3. Web Designing (2007-12, 2012-‘17) - Department of Mathematics.
  4. Geo Informatics (2012-2017) - Department of Geology.
  5. Yoga Therapy and Physical Fitness (2012-‘17) – Department of BPE.
  6. Seed Production and Culturing of Ornamental and Edible Fishes (2012-‘17)- Department of Zoology.
  7. Journalism (2012-2017) Department of English.
- The Syllabus followed for M. Sc. Environmental Science in the University of Calicut is designed by the faculty of the College.
- Syllabi for the short term and Diploma courses certified by the Centre for Earth Research and Environment Management, Cochin are prepared by the Department of Geology and Environmental Sciences.

As a part of shifting from the year wise pattern to the Choice Based Credit Semester System, restructuring of the curriculum was done in the academic year 2009-10. Many of the faculty participated in designing the curriculum of different programmes at the University level, in their capacity as members of the Syndicate, Senate, Board of Studies, Academic Council, Faculty of Sciences, Commerce and Management studies etc. The following table gives the names of the faculty representing various academic bodies.

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Faculty actively participate in the meetings and workshops organized by the University to contribute their expertise in curriculum design.

<b>Name of Faculty and Department</b>	<b>University</b>	<b>Position holding</b>	<b>Academic Body</b>
Dr. C. O. Joshi Department of Zoology	University of Calicut	Member	University Syndicate
	University of Calicut	Member	University Senate
	University of Calicut	Member	Academic Council
	University of Calicut	Member	PG Board of Studies
	Kannur University	Member	PG Board of Studies
Rev. Fr. Dr. Jose T M Department of Chemistry	University of Calicut	Member	University Senate
Prof. Sebastian Joseph Department of Malayalam	University of Calicut	Member	University Senate
	Kannur University	Member	PG Board of Studies
Prof. K O Francis Department of Commerce	University of Calicut	Member	University Senate
	University of Calicut	Member	P G Board of Studies
	University of Calicut	Chairman	UG Board of Studies
Dr. Balu T Kuzhivelil Department of Zoology	University of Calicut	Member	Research Council
	University of Calicut	Member	Single Board of Studies Physiology
Dr. E M Thomas Department of Economics	University of Calicut	Member	P G Board of Studies
Dr. Jacob George Department of Phy. Edn	University of Calicut	Member	P G Board of Studies
Dr. V P Joseph Department of Physics	University of Calicut	Member	P G Board of Studies
Dr. V T Joy Department of Chemistry	University of Calicut	Member	P G Board of Studies
Prof. E J Vincent Department of Botany	University of Calicut	Member	UG Board of Studies
Prof. K J Thomas Department of Phy. Edn	University of Calicut	Member	UG Board of Studies
Fr. Joy P T Department of Phy. Edn	University of Calicut	Member	UG Board of Studies
Dr. V F Paul Department of Zoology	University of Calicut	Member	Single Board of Studies Medical Lab Techn.
Dr. Tessy Paul Department of Botany	University of Calicut	Member	Single Board of Studies Plant Science
Dr. A V Sudhikumar Department of Zoology	University of Calicut	Member	Single Board of Studies Physiology
Dr. Jayakrishnan K M Department of Hindi	Mahatma Gandhi University, Kottayam	Member	PG Board of Studies Hindi and Literature
Dr. R V Rajan Department of Geology	University of Calicut	Member	Single Board of Studies Geology
Dr. Mathew Paul Ukken Department of Chemistry	University of Calicut	Member	PG Board of Studies
	Kerala University	Question Paper setter	UG Board of Studies
	St. Joseph's College, Devagiri,(Autonomous)		



Dr. K J Varghese Department of English	Sree Sankara University of Sanskrit, Kalady	Member	Syllabus framing Committee of English
			Academic Monitoring Committee
Dr. V D John Department of Chemistry	Kerala University	Question Paper setter	PG Board of Studies
	Mar Evanious College, (Autonomous)		UG Board of Studies
	St. Thomas College, Thrissur (Autonomous)		PG Board of Studies
	University of Calicut	Chairman	UG Board of Studies
	University of Calicut	Member	Faculty of Science
	University of Calicut	Member	Steering Committee of CCSS
Dr. Davis Antony M Department of Statistics	St. Thomas College, Thrissur (Autonomous)	Member	UG Board of Studies
Dr. A V George Department of Geology	Kannur University	Member	PG Board of Studies
Dr. S Sreekumar Department of Geology	Mahatma Gandhi University, Kottayam	Member	PG Board of Studies
Dr. B P Aravinda Physical Education	University of Calicut	Member	Academic Council
	University of Calicut	Member	Gemology and Jewelry Making
	University of Calicut	Member	P G Board of Studies
Dr. T Vivekananda Physical Education	University of Calicut	Chairman	U G Board of Studies
	University of Calicut	Member	P G Board of Studies
Dr. Pious K Jacob Department of Zoology	University of Calicut	Member	P G Board of Studies
Dr. A J Thankachan Department of English	University of Calicut	Member	U G Board of Studies
Dr. K J Antony Department of Chemistry	University of Calicut	Member	P G Board of Studies

**1.1.7 Does the Institution develop curriculum for any of the courses offered (other than those under the purview of the affiliating university) by it? If 'yes', give details on the process ('Needs Assessment', design, development and planning) and the courses for which the curriculum has been developed.**

Yes. Apart from regular programmes, the College offers Add-on courses recognized by the UGC, and many other enrichment programmes. An Add-on course committee has been constituted for this purpose with a faculty as the coordinator. The need assessment and designing of these programmes are done by this committee, based upon the feedback of stakeholders and industrialists. The curriculum of these courses has been designed by the faculty of the Department, in consultation with external experts in the subject. These courses are designed to enable the students to acquire additional skills and to make them more employable. Students are given orientation about these courses at the time of admission to the UG programmes. A course coordinator from the host Department is entrusted to monitor the smooth conduct of the course. In the current Plan period, the College offers six Add-on programmes and one innovative PG Diploma programme



funded by the UGC. During 2007-12 Plan period, the College had offered three Add-on programmes and one innovative programme. In addition to these, many enrichment programmes are also conducted. Details are given in Section 1.2.1

**1.1.8 How does Institution analyze/ensure that the stated objectives of curriculum are achieved in the course of implementation?**

The students are made aware of the objectives of the programme they undergo by the class teacher at the commencement of the programme. Departments, and especially class teachers, take necessary steps with a view to realize these objectives.

- Teachers are requested to ensure that the academic calendar is strictly followed in all the semesters and that the prescribed syllabus is completed before the examinations.
- Even though formal assessment of the programmes is done by the University through external examinations, the College has a centrally arranged examination system which conducts two internal examinations in each semester.
- Apart from these internal examinations, the faculty adopts methods like oral questions, debates, quiz competitions, group discussions, power point presentations, seminars etc to analyze whether the objectives of the curriculum are achieved by the beneficiaries.
- Class teachers identify the slow learners and advanced learners and special care is given to slow learners through remedial classes.
- The course feedback forms collected from students at the end of the year are also meticulously evaluated every year by the Departments to ensure the achievement of the objectives and teachers are also recommended to improve the curriculum delivery and professional skills if necessary.

The performance of students in University examinations, results, the honours and prizes obtained, admission for higher studies etc substantiate that the delivery of the curriculum is effectively implemented. The consistent demand ratio of various courses indicates the acceptability and confidence level of the takers of programmes in achieving the objectives of the curriculum.

**1.2 Academic Flexibility**

**1.2.1 Specifying the goals and objectives give details of the certificate/ diploma/skill development courses etc., offered by the Institution.**

The College offers the following Add-on courses, PG Diploma programmes and enrichment programmes

UGC Aided Add-on Programmes	
Name of the Course	Objective
Communicative English	To develop the communicative skills of students and thereby increase their chances for employability
Web Designing	To enable students to become employable in IT allied industries
Yoga Therapy & Physical Fitness	To prepare students to acquire knowledge of classical and theoretical foundations of Yoga Therapy and Physical Fitness
Geo - Informatics	To train students as good technicians with fundamental knowledge of Surveying & Geo Informatics
Seed Production and Culturing of Edible and Ornamental Fishes	To develop suitable technology for controlled seed production and culture of candidate species of fishes and shell fishes.





Journalism	To produce competent professionals who demonstrate theory and practice of journalism and communications;
Taxation & Tax procedure	To create a foundation for understanding the basic laws of taxation and tax procedures
<b>UGC Aided Innovative Programmes</b>	
PG Diploma in Sustainable and Green Energy Technologies	To create awareness of the energy crisis problems from the new sustainability science with emphasis on renewable energy, energy efficiency and management areas.
PG Diploma in Disaster Management (2007-12)	Train students to take administrative decisions and operational activities that involve prevention, mitigation recovery and rehabilitation in disasters
<b>Kerala State Government Sponsored Programme</b>	
Additional Skill Acquisition Programme	To give trainings in soft skills along with exposure to communicative English and Informatics and in chosen areas of interest.

Moreover, the College offers coaching classes for NET/JRF examination, bank tests and Civil Service Examination and entry to State and Central Services

Departments conduct many Add-on programmes, enrichment programmes, value-added programmes, that create ample opportunities for the development of students. Some of skill development programmes conducted by various Departments are listed below.

- *Script writing and Short film recording*
- *Flash mob and street play*
- *IT Exhibition*
- *Presentation Contests*
- *Communication Skills*
- *Drawing and Paining*
- *Handicrafts making and tailoring*
- *Demonstration in detergent soap making*
- *Coaching camps for sports competitions*
- *Demonstration on computational techniques*
- *Trainers' training programmes*

**1.2.2 Does the Institution offer programmes that facilitate twinning /dual degree? If 'yes', give details.**

The College strictly follows the pattern of programmes offered by University of Calicut to which it is affiliated. At present, the University does not allow the affiliated colleges to offer twinning programmes/dual degree programme. However, in order to cater to the needs of large number of students, the following steps are taken.

- The College has entered into an MoU with Bharathiyar University to offer various new generation programmes and with the Punjab Technical University to offer undergraduate and diploma programme.
- The College has entered into an MoU with KELTRON to offer Professional Diploma in Network Engineering with Laptop Chip level Technology - a technically employable programme, for students who are not enrolled in regular programmes of the College
- Even though the Institution has expressed willingness to associate with certain foreign universities, the precise terms and conditions have not yet finalized.



*The College has been recommended by the Government of Kerala for being granted autonomous status. As soon as this materializes starting twin/dual degree programmes will be seriously considered.*

**1.2.3 Give details on the various Institutional provisions with reference to academic flexibility and how it has been helpful to students in terms of skills development, academic mobility, progression to higher studies and improved potential for employability.**

➤ **Range of Core/Elective options offered by the University and those opted by the College**

The programmes offered by the College are designed by the affiliated University and therefore, it has limited scope for academic flexibility. Within the limited scope, the Departments employ maximum flexibility to choose the emerging topics so as to help students develop their skills and make them employable, and enable them to pursue higher studies.

- The College has utilized the option to choose some new generation topics for elective/complimentary programmes rather than the conventional topics for the following core programmes in UG level.

<b>Sl. No.</b>	<b>Core Programme</b>	<b>Elective/Complementary Programme</b>
1.	Mathematics	Computer Science
2	Physics	Material Science and Thin Films
3	Geology	Environmental Geology
4.	Commerce	Finance Management
5.	Functional English	Journalism
6.	English	Electronic Media
7.	Malayalam	Folklore Studies
8.	Social Work	Community Health
9.	BCA	Internet Programming
10.	Computer Science	Computer Graphics & Web Design

- In the BPE programme, one batch itself is divided into different groups so that each group can select any one of the five electives.
- The College offers a variety of programmes at the UG and PG level ranging from Material Science to Social Work, Computer Science to Physical Education and Geological Science to Literature.
- There is ample provision for diversity in complementary programmes for each core programme and open courses in tune with the University syllabus.
- The College offers various Add-on programmes to increase employability.
- Topics for PG projects and dissertations are selected so as to inspire students to pursue higher studies.
- Assignment topics that giving in-depth exposure in the subject are chosen.
- Seminar presentations are done using Power Point Slides to improve presentation skills.
- The reason behind starting new programmes like B. Sc. Computer Science, BCA, BSW, B. Sc. Psychology is their growing employability chances.



- All UG programmes have English as a common programme in Part I and an additional language Sanskrit/Hindi/Malayalam in Part II. In Part III the respective core and complementary programmes are discussed. The following table gives various core, complementary programmes and elective papers offered by the College at UG level.

Programme	Core Programme	Complementary Programme	Elective
B. Sc.	Mathematics	Statistics & Computer Science	Graph Theory
	Physics	Mathematics & Chemistry	Material Sci.& Thin Films
	Chemistry	Mathematics & Physics	Synthetic Organic Chemistry
	Zoology	Chemistry & Botany	Aqua Culture, Animal Husbandry & Poultry
	Geology	Chemistry & Statistics	Environmental Geology
	Computer Science	Mathematics & Statistics	Comp. Graphics, Web Design
	Psychology	Physiology & Statistics	Personality Development
B. A.	Economics	Modern Indian History & Politics	Economics of Business and Finance
	Functional English	Journalism & Survey of English Literature	Project Work
	Malayalam	Sanskrit & Cultural Studies	Folklore Studies
	English	Journalism	Electronic Media
B. Com.	Commerce	Fin. & Basic Accounting	Financial Management
BCA	Computer Application	Mathematics & Statistics	Internet Programming
BSW	Social Work	Community Health & Social Psychology	Community Building

- The sizeable number of students moving towards higher studies and the hike in the campus placements emphasize the fruits of the efforts taken by the College in this regard*
- The College offers a four-year residential professional degree programme in Physical Education – BPE. Eligibility is Plus two and aptitude for sports activities.
- It has four batches of B.Com programme and all follow same pattern of core, complementary and elective papers.

#### PG Programmes and Electives

Programme	Core Subject	Electives
	Chemistry	Synthetics Organics Chemistry
	Zoology	Fishery Biology
	Physics	Advanced Electronics, Communication Electronics, Experimental Techniques
	Environmental Science	Environmental Impact Analysis, Food Adulteration and Preservation, Ecosystem and Global Climatic Change, Hydrology and Water Resources, Indian environmental Law, Environmental Disaster



M.Sc.		Management, Current Environmental Issues in India.
	Mathematics	Algebraic Number Theory, Operations Research
	Botany	Environmental Science and Genetic Engineering
	Statistics	Operations Research, Time Series Analysis and Statistical Quality Control
	Geology	Remote Sensing, Climatology, Environmental Geology, Disaster Management
M.Com.	Commerce	Financial Management
M. A.	Economics	Research Methodology and Computer Application, Agricultural Economics
	History	Environmental History
	English	British and Continental Drama, Writing for the Media American Literature, European Fiction in Translation Postcolonial Fiction and Drama, Malayalam Literature in Translation, Indian English Fiction, Linguistics, American Ethnic Writing
<b>Ph. D. Programmes</b>		
<b>Research Department</b>	<b>Area of Research</b>	
Chemistry	Metal Complex, Fuel Cells and natural Products of Chemistry	
Zoology	Biochemistry, Biotechnology, Toxicology and Taxonomy	
Physics	Electromagnetism, Spectroscopy and Solar Cells	
Geology and Environmental Science	Environmental Studies	
History	Kerala History	
Economics	Forestry & Environment, Labour Studies, Economic Planning	

- **Choice Based Credit Semester System:**-The Choice Based Credit Semester System has provision for choosing Open Courses in a discipline other than the core subject. This offers students freedom to choose any subject they desire in the fifth semester of the programme.

#### Open Courses offered by the Departments

Sl. No	Name of the Open Course	Department
1	Mathematics for Social Sciences	Mathematics
2	Non conventional Energy sources	Physics
3	Chemistry in Everyday Life	Chemistry
4	Human Health & Sex Education	Zoology
5	Understanding the Earth	Geology
6	Banking	Economics
7	Personality Development	English
8	Basic Financial Accounting	Commerce
9	Health and Wellness of the Body	Physical Education



In the rigidity of the affiliated system to the University, the range of subject options is limited. However, the maximum available flexibility is opted in this regard for all the UG and PG programmes.

- **Courses offered in modular form:** There is no scope for choice between modules in courses or exchange with module of another course.
- **Credit transfer and accumulation facility:** No credit transfer and accumulation facility is available.
- **Lateral and vertical mobility within and across programmes and courses:** No lateral and vertical mobility within and across programmes and courses is entertained
- **Enrichment Programmes:** The College offers various enrichment programmes aiming at the holistic development of students.

Enrichment Programme	Objective
Bridge course in communicative English	To develop proficiency in the English Language, both written and spoken, of students especially from rural and coastal sectors.
Personality Development Programme	To develop personality and upgrade the communication and presentation skills and make students employable in the job market.
IT Vijnan Programme	To achieve cent percentage computer literacy initiated <i>IT Vijnan</i> Programme, a unique short term programme for students on Information Technology.
Coaching for Common Proficiency Test	To improve proficiency of students in numerical ability, test of reasoning, English Grammar, general knowledge and clerical aptitude and make them employable.
Soft Skill training programme	To acquaint all final year students with group discussion techniques and interview skills.
Short term course in Geo Informatics	To expose the students to foundation programme in Surveying & Geo-informatics jointly with Centre for Earth Research and Environment Management, Cochin.
Student Support Programme	To conduct remedial coaching programmes for the benefit of slow learners.
Walk With Scholar	To give training on soft skill development.

**1.2.4 Does the Institution offer self-financed programmes? If ‘yes’, list them and indicate how they differ from other programmes, with reference to admission, curriculum, fee structure, teacher qualification, salary etc.**

The College offers self-financing programmes at both UG and PG levels. The admission to these programmes is according to the norms of admission stipulated by the University and the State Government. Fifty percentages of the seats are merit based while the remaining fifty percentage is allotted to the Management. The allocation of seats under each quota is as shown below.



Quota	Category	% of seats	Total
Open Merit seats	General Merit	65%	50%
	Scheduled Caste	8%	
	Scheduled Tribe	2%	
	Muslim	8%	
	OBC	9%	
	OBH	3%	
	OBX	3%	
	LC	2%	
Management Seats			50%
Total			100%

The rules of fee concessions, stipends, scholarships, free-ships, etc. enjoyed by SC/ST, OEC students in self-financing programmes are the same as that of aided programmes. Moreover, the College offers fee concession to economically backward students who are admitted under open merit quota. Details of fee concession in various courses are mentioned in the prospectus of admission. There is no difference in the curriculum of self-financing programmes and aided programmes. The annual fee structure for self-financing programmes is according to Government norms. Details are furnished below.

Programme	Fee Structure	Programme	Fee Structure
B. Sc. Psychology	22500	BSW - Social Work	18000
B. Sc. Computer science	37500	M. Sc Botany	45000
B. A. Malayalam	18000	M. Sc. Statistics	37500
B. A. English	18000	M. Sc. Geology	45000
B. Com	18000	M.A English	37500
BCA	37500		

Discounts in this Government fee structure are applicable according to the score obtained by the candidate in the qualifying examination.

The eligibility of teachers for self-financing programmes is according to the rules stipulated by the University and Government. However, preference is given to candidates with UGC/ CSIR NET eligibility in self-financing programmes also. Salary for teachers of self-financed programmes is fixed as per Government rules. Yearly revisions are applied considering their qualifications and experience.

**1.2.5 Does the College provide additional skill oriented programmes, relevant to regional and global employment markets? If ‘yes’ provide details of such programme and the beneficiaries.**

Since most of the students of the College are from rural pockets and with less exposure than mainstream students, special care is taken to develop various skills. The College offers many enrichment programmes and additional skill development programmes to cater to the needs of the global employment market.

- With the support of the State Government the College conducts ASAP to equip students with employable skills.



- The Career Guidance and Placement Cell of the College conduct soft skills training programmes, personality development programmes and coaching classes for bank tests and entry to State and Central services.
- In order to develop the computer skills of students, a free computer literacy programme *IT Vijnan* is offered for all first year students.
- Subject-wise training programme for appearing the UGC/CSIR – NET examination is offered for PG students. Students from other colleges are also entertained in these programmes.
- The College offers many UGC aided Add-on programmes and PG diploma programmes.

Programme	Number of Participants			
	2010-11	2011-12	2012-13	2013-14
ASAP	---	---	---	30
Bank Test/	----	65	73	70
<i>IT Vijnan</i>	398	403	491	604
UGC/CSIR NET/JRF	33	56	83	47
Add-on Programmes	73	151	199	89
Civil Service	45	52	72	59

**1.2.6 Does the University provide for the flexibility of combining the conventional face-to-face and Distance Mode of Education for students to choose the courses/combination of their choice” If ‘yes’, how does the Institution take advantage of such provision for the benefit of students?**

The affiliating University does not permit the flexibility of combining the conventional face-to-face and Distance Mode of Education for students to choose the courses/combinations of their choice. However, the College helps students to utilize the provision of the University to switch from regular mode to distance education mode, to pursue their studies, in case of discontinuation.

### **1.3 Curriculum Enrichment**

**1.3.1 Describe the efforts made by the Institution to supplement the University’s Curriculum to ensure that the academic programmes and Institution’s goals and objectives are integrated?**

The Institution has been giving utmost importance to make sure that the students, their parents, and teachers are well aware of the Vision and Mission of the Institution and to adopt a holistic approach towards education. Accepting the prescribed curriculum of the University, the College takes all efforts to supplement the curriculum and to tune it to achieve the Institution’s Vision and Mission.

- Understanding the vital role played by the faculty as the instruments to achieve the Institution’s goals and objectives, meritorious candidates who are exemplary in personal and moral life are considered for appointments.
- Periodical orientation and conscientization programmes are organized to enlighten the faculty by inviting eminent luminaries of the community and creating an opportunity to interact with them.
- In order to groom the students into morally upright citizens, entrenched in values and spiritually oriented, the CSA organizes value education classes. During these sessions moral, religious, ethical topics, environmental issues, business ethics and psychological values are discussed. The expertise of the teaching faculty is to be utilized to impart noble and human values of education to the students.



- Programmes to inculcate notions of social commitment, human dignity, truth, justice, righteousness, harmony and tolerance are organized by the NSS and other co-curricular bodies in order to nurture the students as responsible citizens of our nation.
- With a vision to cultivate leadership skills and the courage to face social issues, the Women's Development Cell organizes programmes to instruct and inform women and other students about their rights and dignity.
- The College organizes personality and soft skill development programmes, ICT development programmes, interpersonal relationships enhancement programmes, and bridge programmes in communication skills to equip the students with skills and mould them into 'finished products'.
- Many Departments offer Add-on programmes to make the students employable and to promote self employment.
- In order to generate a sense of commitment to the Nation, the NCC organizes competitions in Patriotic Songs, quiz competitions, celebrations of nationally important days like Independence Day, Republic Day, NCC Day etc.
- The Institution also believes that psychological maturity is essential for the integrated growth of students. The service of a full time Counsellor is availed for this.

As part of this work culture, beyond the University curriculum, the Institution has been paying much attention to impart social values and morals based on Indian culture to the students, and to bring them into the practical realm through various social activities, benefitting both the students and the society as a whole.

### **1.3.2 What are the efforts made by the Institution to enrich and organize the curriculum to enhance the experiences of the students so as to cope with the needs of the dynamic employment market?**

Many of the students come from rural backgrounds and underprivileged pockets of Irinjalakuda. Taking this into consideration the College has been supplementing the curriculum through various programmes with an aim to augment the skills of the students to cater to the needs of the dynamic employment market.

- UGC-sponsored Add-on programmes such as Web Designing, Taxation and Tax Procedures are organized to capacitate students with skills for employment market.
- Communicative English Course is a programme initiated by the Department of English for the Language skill enhancement of students.
- Residential Additional Skill Acquisition Programme is conducted to hone employable skills that make students the solicited ones in the job market.
- The Career Guidance and Placement Cell organizes coaching classes equipping students with new knowledge and various aptitudes to qualify Public Service Commission Examination, bank tests, etc.
- The IAS Academy organizes Civil Services coaching classes to equip the students with the ability to compete in the Civil Service Examination.
- The College organizes UGC funded NET/JRF coaching classes for PG students in various subjects. On the average 60 students including those from other colleges take part in these programmes per year. The expertise of various resource persons in and out the College are utilized to engage nearly 200 hours required for subject-wise discussions and for the general paper.
- Coaching classes for CPT examination and orientation programme for CA/ ICWA/ACS courses were organized.





- The Film Club of the College trains students in film direction, script writing, acting, videography, etc and equips them to be employable in film and other allied industries.

### **1.3.3 Enumerate the efforts made by the Institution to integrate the cross cutting issues such as Gender, Climate Change, Environmental Education, Human Rights, ICT etc., Into the curriculum?**

The College takes keen interest in integrating the various cross cutting issues with the curriculum through the activities and invited talks organized by various co-curricular bodies.

#### ➤ **Gender sensitization:-**

- Gender equality is strictly followed in the appointments of staff and admissions of students,
- Women's Development Cell of the College conducts a variety of programmes to create awareness among students in general and women students in particular, about their rights and help them lead a dignified life in the society.
- Talks on issues concerning women and the opportunities for their development are delivered by eminent resource persons including psychologists, leading advocates, physicists, and members of Kerala State Women's Commission.
- Every year special days like International Women's Day, Mother's Day, etc. are celebrated with a variety of programmes including essay writing competitions, quiz programmes, presentation contests etc.
- Meetings and rallies are conducted to sensitize the campus about the discrimination and atrocities towards women folk, the violation of human rights and harassment of women and when glaring incidents of women abuse like the tragic *Nirbhaya* incident arise in and around the country.

#### ➤ **Climate Change, Environmental Education:-**

Since its inception, Christ College has been an Institution maintaining a green campus. It has always been in the forefront to propagate the need of protecting Mother Earth. Apart from the pleasant environmental ambience given to the students through its lush green campus, many programmes are organized by the Environmental Club, Biodiversity Club, *Bhoomithrasena* Club, Science Club, NSS, etc to spread the message of Environmental protection.

- **Celebrations of special days like**
  - World Environment Day
  - Earth Day
  - Ozone Day
  - Hiroshima Day
  - Energy Conservation Day
  - Biodiversity Day
- **Special Programmes to propagate environmental protection in the society.**
  - One Goal One Tree programme in connection with the Word Cup Football tournament in 2010 and 2014
  - One tree planted by each eminent person visiting the campus
  - Go Green Be Clean project of NSS
  - Plantation of mango saplings in educational Institutions and Government offices
  - Useful articles from used articles
  - Safe Campus and Clean Campus (a drive against campus pollution through use of drugs and liquors)
  - '*Santhisthal*' to protect RET plants initiated by Biodiversity Club
  - Activities of *Bhoomithrasena* Club



- **Energy conservation programmes**
    - Green energy programme by installing solar panels
    - Promoting use of LED bulbs
    - Minimizing use of power consuming devices like electric burners, incinerators, etc
    - Installing storages for rain water harvesting from roof top
    - Constructing *Thadayana* and bunds for ground water recharging
  - **Controlling soil erosion by maintaining green belt and planting new saplings**
  - **Recognitions received by the College for environmental protection**
    - Kerala State Energy Conservation Award in 2011 among the colleges of the State instituted by the Energy Management Centre, Department of Power, Government of Kerala.
    - Energy Conservation Award for the year 2011 for outstanding contribution in the field of energy conservation instituted by Kerala State Electricity Board
    - Prestigious Green Award among colleges instituted by the Kerala State Biodiversity Board for the valuable contributions to the conservation of biodiversity during the year 2011-12
    - First Haritha Award instituted by the University of Calicut in 2014.
    - The Biodiversity Club of the College won the Award for the Best Biodiversity Club instituted by the Biodiversity Board, Government of Kerala in 2014-'15.
- **Human Rights:** -The College has been doing its best to cultivate the values of human dignity and awareness among the students and the society in general by organizing periodical talks and workshops on topics that highlight the values of human dignity and the need of protecting basic right for livelihood. Vouching for the Institution's goal to uphold human dignity and impart human values among the students and the society, the College has applied to the UGC for granting a UG Programme in Human Rights.
- **ICT:-** In order to integrate the University curriculum with ICT topics, the College has been conducting a unique programme -*IT Vijnan*- from 2003 onwards. It is conducted for all the first year degree students of the College to help them acquire IT skills. The training module developed by the College includes Basic Computer Knowledge, MS Windows, MS Office, and Internet training.

### **1.3.4 What are the various value-added courses/enrichment programmes offered to ensure holistic development of students?**

- **Moral and ethical values:-**  
For achieving holistic development of students, the Curriculum designed by the University is supplemented with various value-added and enrichment programmes.
- The Initiation ceremony conducted by the CSA to the first year students sets the tone of value-added enrichment programmes. The ceremony starts with *Sarvamathaprarthana* followed by readings from the Holy Scriptures. The Manager, Principal and Heads of Departments deliver instructional speeches to the students and parents. Talks on responsible parenthood by spiritual leaders are also organized for parents.
  - Life guidance classes for all students once a year.
  - Being a minority Institution, CSA arranges Holy Mass and Confession on the first Friday of every month for the spiritual enrichment of students.
  - Weekly value education classes for all students on topics promoting social justice and harmony among the students and extension lectures on topics ranging from materialism to spiritualism in order to accomplish their holistic growth.



- In order to enhance the judicious skills of students and make them responsive to burning issues of the society, talks are arranged periodically by inviting eminent personalities.
  - Commemoration of days of national importance is conducted with appropriate programmes so as to induce patriotism in the minds of the students.
  - The College encourages students to take part in *Santhwanasparsam*, to visit old age homes and palliative care units and conduct various entertainment programmes, and free tuitions for school children so as to have a humane and compassionate outlook towards life.
  - With the support of the faculty and students a free noon meal programme has been introduced for deserving students to help develop a sympathetic attitude towards the marginalized and underprivileged sections of the society.
  - The service of a professional Counsellor made available in the campus for stress management and psychological maturity of the students.
  - Anti-ragging drives initiated soon after the commencement of classes for freshers gear up a fraternal relation among students.
- **Employable and life skills**  
We reinforce all the conventional courses through value-added, in-built and technology based skills.
- ASAP sponsored by Kerala Government to improve the employable skills,
  - Training for self-employment in Hand embroidery, Traditional stitching, Fabric painting, Interior art, Craft projects, Jewelers work, Mural painting and textile painting.
  - *IT Vijnan* Programme.
  - UGC sponsored Add-on Programmes to empower students with new employable skills.
- **Better career options**
- Invited lectures organized by the Career Guidance and Placement Cell to make students aware about the changing pattern of job market and to make them fit to achieve placement.
  - Personality Development programmes and Bridge course in English speaking skills.
  - Coaching classes for entry to State and Central services.
  - Bank test coaching classes.
  - Coaching classes for Civil Service Examination.
  - UGC/CSIR Coaching classes to qualify NET/JRF examinations.
- **Community Orientation**  
The College has different platforms to sensitize the students about their social responsibility. The community needs are identified through the Local Bodies. Various associations of the College conduct a wide range of programmes which bring to the campus a microcosm of the society with all its merits and demerits. These programme the highlight the need on the part of the students for creative intervention to overcome the crises and combat the evils of the society.
- The ten day and one day camps organized by NSS and NCC are arranged in backward areas after discussion with the Local Bodies.
  - **Services rendered to the Community**
    - Constructing new roads,
    - Improving and cleaning the existing roads
    - Removing plastics from road sides,
    - Restoring hygiene and sanitation
  - **Visits to various Charitable Institutions**
    - Old age homes and Hospitals,



- Special schools for differently
- *Onam* celebrations with poor and sick, blood donation camps,
- Rally against child labour and abuse are some of the programmes organized by the students to sensitize the community.
- Special days like Independence Day, Republic Day are celebrated by the NCC with local community bodies and rallies are organized.
- Celebration of World Environment day and the World AIDS day with the motto “Prevention of AIDS” by NSS.
- Street Play and Flash Mob to convey messages on topics of social relevance by Social Work, and field work in tribal areas.
- *Santhwanasparsam* organized by the CSA.
- The faculty and students of the Department of BPE train the mentally and differently-abled students of neighbouring schools in sports and games and organizes annual sports meet for the benefit of the differently-abled students.
- Celebration of Teachers’ Day, Women’s Day, *Keralappiravi*, World Mental Health Day, etc.
- Jointly with Kerala Forest & Wild life Department, the Department of BPE organized a Natural Awareness Camp by removing plastics along 20 km road side and premises towards Athirappilly – An important tourist place.

### **1.3.5. Citing a few examples enumerate on the extent of use of the feedback from stakeholders in enriching the curriculum?**

Since the role of the College in the design of curriculum is participatory, this feedback cannot be implemented directly to enrich them. However, we communicate the views and interests of students, parents and the faculty through members of various academic bodies to the relevant authorities. All Departments collect feedback on curriculum from students in a prescribed format. In addition to this followings steps are taken.

- Oral feedback is collected in the Send-off programme of final year students.
- Feedback from parents is collected during parents’ meetings.
- Feedback from employers is also collected.

The feedback is scrutinized in detail and modifications are made in the enrichment and Add-on programmes organized by the College. One of the main drawbacks pointed out by the employers is the poor communication skill of the students. Taking this into consideration, the Department of English conducts an Add-on programme in Communicative English. In addition to that Personality Development programmes, Bridge Course on English speaking, Spoken English classes, etc are arranged.

### **1.3.6 How does the Institution monitor and evaluate the quality of its enrichment programmes?**

The committees constituted for conducting the various Add-on programmes and the co-curricular bodies will ensure the proper delivery and usefulness of the programmes conducted. The feedback on enrichment programmes is collected from beneficiaries by the trainers and the organizing authority. The IQAC of the College also plays a vital role in sustaining the quality of the programmes. The hike in the number of placement drives conducted in the College, number of students getting placement through various campus recruitment drives, etc reiterate the acceptability of students by the employers. This has been achieved though the quality of the enrichment programmes organized in the College.



## **1.4 Feedback System**

### **1.4.1 What are the contributions of the Institution in the design and development of the curriculum prepared by the University?**

In the revamping of the curriculum in connection with the implementation of Choice Based Credit Semester System many workshops and seminars were organized by the Board of Studies of various subjects. Almost all the faculty of the College had involved and contributed their views and suggestions in those meetings. The IQAC created a platform to discuss the modifications with their counterparts of other Institutions by organizing a two day workshop on this topic. The syllabus of M. Sc Environmental Science followed in the University of Calicut is the brain child of eminent faculty of the Department of Geology and Environmental Science and other partner Departments of the College. The syllabi of various Add-on courses initiated by various Departments are prepared by the faculty of the host Departments. The syllabus for a UGC sponsored innovative programme, PG Diploma in Disaster Management, was prepared by the host Department. The UGC has also sanctioned another innovative programme, PG Diploma in Sustainable and Green Energy Technologies, in the XII Plan and its syllabus is prepared by the faculty of the Departments of Chemistry and Physics. The Senate Members of the College are instrumental in contributing innovative ideas in the design and development of the curriculum. At this instance, special mention is to be made about the submission moved by Prof. Sebastian Joseph, member of the Senate, in the framing of the syllabi for various subjects. Considering his submission the Hon. Vice Chancellor of the University issued an order giving teachers the freedom to opine their views on the syllabus and suggest necessary changes through the website of the University.

### **1.4.2 Is there a formal mechanism to obtain feedback from students and stakeholders on Curriculum? If 'yes', how is it communicated to the University and made use internally for curriculum enrichment and introducing changes/new programmes?**

Curriculum related questionnaires are distributed among students. Feedbacks thus collected are analyzed Department wise.

- The fruitful opinions and suggestions are communicated to the authorities of the University through concerned Bodies.
- The faculty and Principal who are summoned to attend the University level meetings solicit the attention of the authorities to look into these feedbacks.

The Colleges always try to be aware of the dynamic job front needs and the skills demanded in professional spheres through the alumni who visit the campus on a regular basis. Analyzing all feedbacks from students, alumni, industrialists, entrepreneurs, etc., and taking into consideration the new trends in the swift changing job atmosphere, the College has developed the syllabi for the various Add-on courses and has started several new courses in the self-financing stream.

### **1.4.3. How many new programmes/courses were introduced by the Institution during the last four years? What was the rationale for introducing new courses/programmes?**

Financial stringency prevents the Government and the University from sanctioning new courses in the aided stream. However, the College took initiative to get sanction for many sought-after new courses in the self-financing stream. During the last four years the College has introduced eight new programmes at the UG level and five new programmes at PG level of which one is in aided stream.



### List of new programmes started during last five years

Sl. No.	Name of the Programme	Year of Commencement
1.	B. Sc. Computer Science (Self-financing)	2012-13
2.	B. Sc. Psychology (Self-financing)	2012-13
3.	B. C. A. (Self-financing)	2013-14
4.	B. A Malayalam (Self-financing)	2013-14
5.	B. S. W. (Self-financing)	2013-14
6.	B. A. English (Self-financing)	2014-15
7.	B. Com. (Self-financing)	2013-14
8.	B. Com. (Self-financing)	2014-15
9.	M. Sc Mathematics (Aided)	2012-13
10.	M. A. English (Self-financing)	2013-14
11.	M. Sc. Botany (Self-financing)	2013-14
12.	M. Sc. Statistics (Self-financing)	2014-15
13.	M. Sc. Geology (Self-financing)	2014-15
14.	Web Designing (UGC Add-on course)	2010-11
15.	Yoga and Yoga Therapy (UGC Add-on course)	2012-13
16.	Geo-informatics(UGC Add-on course)	2012-13
17.	Journalism (UGC Add-on course)	2013-14
18.	Seed Production and Culturing (UGC Add-on course)	2013-14
19.	Edible and Ornamental Fishes (UGC Add-on course)	2013-14
20.	Post P. G. Diploma in Sustainable and Green Energy Technologies (UGC innovative course)	2013-14
21.	Ph. D. programme in History	2010-11
22.	Ph. D. programme in Physics	2011-12

The rationale behind introducing these courses is that these advanced and need based courses be made available to students at easily accessible points. All the new courses we have started is to enhance the language and culture of the land, to satisfy the increasing demand of human resources, the developments of the downtrodden sections of the society and hence to contribute to an overall development of the society we belong to.

Heeding to the advice of the first NAAC accreditation team, the College had applied to the National Council for Teacher Education for starting B. P. Ed. and M. P. Ed. programmes. Even though courses had been granted by the Council, the University insisted to start the programmes under a separate entity. Therefore, presently the programmes are running under the administration of the Christ College of Physical Education.

#### **Any other relevant information regarding curricular aspects which the College would like to include.**

The College has been recommended for autonomous status by the Government of Kerala. Once autonomy is granted, the College is confident of making a paradigm shift in its approach to the traditional components of education. The Institution will have to shoulder greater responsibilities in matters like restructuring the existing syllabi, designing of new courses, rescheduling of examinations and timely publishing of results, simultaneously upholding its faith in and commitment to the Vision and Mission of the Institution.



Inter Departmental Quiz Competition  
Winners



Open Mic Day



World Mental Health Day Celebration



National Conference on Green Business:



Mathematics Association



Social Work Department Activities







## **CRITERION II TEACHING, LEARNING AND EVALUATION**

Teaching and learning are reciprocal in nature and evaluation is the culmination of this process. In the modern world of technology, though man is replaced by machines, the College believes that there is no substitute for a dedicated teacher. Teachers are the vehicles through which morals brought out by education, in consonance with the Vision and Mission of the College, percolate to the grass root level. Taking into consideration the needs of the globalized world, the College has re-conceptualized higher education as an effective tool for the transformation of human resources. This is envisaged through adequate focus on the parameters of input and output process. Higher education is viewed as an organized, ongoing, skill based human enterprise for building up the personality of the learner. Deliberately planned and executed teaching and evaluation schedules, measured inputs of experiences of education, practical tasks, laboratory experimentations, 'hands on' computer trainings are incorporated to rewrite the old equations. Transcending the old terrains of educations, man power is motivated to civilize itself for the welfare of the world and translate Vision and Mission of the College.

### **2.1 Student Enrollment and Profile**

#### **2.1.1 How does the college ensure publicity and transparency in the admission process?**

- The commencement of new programmes in the College is publicized through dailies and other print and electronic media. The Website of the College is also regularly updated with details of the new programmes.
- Every year most of the science Departments organize extension programmes in the form of practical laboratory sessions on the theoretical class rooms concepts for the benefit of students from various higher secondary schools. The exposure they gain through the better infrastructure and information from these sessions inspire them to opt this College as their centre of higher education.
- The pleasant memories cherished by the alumni of the College encourage them to recommend their alma mater to their friends and relatives for pursuing higher education.
- The lush green eco-friendly campus of the College is favourite shooting location for many directors and producers of Malayalam and Tamil film industry. The exposure that the viewers get through these films generates an enthusiasm to know more about this College.
- The exposure through the social media and certain websites which display online advertisements, various events of the College and achievements of the students lures them to opt the College as their destination for higher studies.
- Right from its inception in 1956, the Institution has succeeded in carving a niche of its own in the domain of Higher Education and therefore does not require any formal publicity.

After the publication of the results of the qualifying examinations, the University notifies a uniform time schedule for the admission process, which appears in the official website of the University, and also as a press release in all the leading dailies in Kerala. The College also displays a copy of this University notification in the College notice board. All important dates related to the admission process are included in this notification. The admission process is done normally in two modes:

- Single window arrangement of the University - CAP
- Localized admission process conducted by the individual colleges separately according to the rules and regulations.
- The mode of admission is decided by the University every year.



- In CAP, the University collects the application forms for admission from eligible candidates and prepares the rank list for all categories except reservation categories like management quota, community quota and sports quota. The rank list is published in the University website and its copies are published in the College notice board. Therefore, in this process the transparency of the rank list is ensured by the University.
- In the localized admission process the College collects application forms and prepares the rank list for all categories. The rank list is prepared strictly following the norms of reservation and social inclusiveness as per the guidelines framed by the University of Calicut and the Government of Kerala.
- The rank list is published in College notice board and Website. In order to ensure transparency, candidates are given sufficient time to report additions, deletions or discrepancies if any.
- The intimation cards of admission are sent to the candidates sufficiently early so that they can complete the admission process within the stipulated time.
- The College prospectus provides the information about the fee to be paid by different categories of students, details of fee concession available for socially and economically backward students, the list of certificates and documents to be produced at the time of admission and the general instructions regarding the admission process.
- A committee has been constituted in the College for the smooth conduct of the entire admission process and it plays a fair and transparent role, ensuring justice, equity and inclusiveness.
- In order to ensure transparency the Admission Committee meticulously scrutinizes the applications received and calculates the index marks strictly following the norms set by the University. The reservation seats for backward communities and sports quota are also filled according to these norms. The lists of candidates selected for admission on merit and statutory reservation are displayed on the College notice board and Website.
- If there are vacancies especially in the SC/ST and other reservation categories, the College advertises such details three times in the regional dailies.

**2.1.2. Explain in detail the criteria adopted and process of admission (Ex. (i) merit (ii) common admission test conducted by state agencies and national agencies (iii) combination of merit and entrance test or merit, entrance test and interview (iv) any other) to various programmes of the Institution.**

➤ **Criteria of admission**

The Admission Committee with the Principal as the Chairman coordinates and ensures and smooth conduct of the admission process. The mark obtained in the qualifying examination is the main criterion for preparing the rank list. The preparation of the rank list and allotment of seats to various reservation categories are strictly in accordance with the University norms and Government policies. The University has fixed a minimum percentage of marks for admission with usual relaxations for backward class students. The split up of seats under different quota is given in the following table.



Category of programme	Reservation	% of seats
Aided programme	General Merit	50%
	Scheduled Caste/Tribe Merit	20%
	Community merit	10%
	Management Quota	20%
Self-financing programme	General Merit	50%
	Management Quota	50%

- 3% of the merit seats are reserved for the differently-abled students and two seats in each discipline are reserved for sports quota.
- The bonus marks applicable for Ex-serviceman quota, NCC, NSS, and CSS participation are given according to the Government and University rules.
- In order to cater to the outstanding sports performers, marginal seats are created adhering to the statutory limits of the University. Preference is given to national level winners or participants and State level winners.

➤ **Process of Admission**

- Soon after the publication of the results of the qualifying examination and according to the University notification regarding the mode of admission, candidates submit the application forms.
- In the localized admission process one can get the application form and prospectus from the College Office or download from the College Website. The duly filled in application form is to be submitted in the College Office on or before the specified date.
- The Admission Committee scrutinizes the filled up application forms, prepares a rank list for each subject and publishes it on the College Website and notice board. The College has developed the required software for the same.
- Each applicant is sent an interview intimation card, specifying the time and date of the interview and amount of fee to be remitted at the time admission.
- Students are admitted after an interview with the Principal in the presence of their parents. The Head of the Department also briefs the scope of the programme that the student has chosen. During the interview all the necessary documents and mark lists in original are verified and the candidate is admitted after payment of the stipulated fees.
- After the closing date of the admission intimated in the time schedule of the University, the list of admitted candidates is forwarded to the University for registration.

The admission process to the professional programmes like BPE and M. Sc. Environmental Science is based on an entrance test and an interview.

Sl. No	Admission Criteria	Marks	
		BPE	M. Sc. Environmental Science
1.	Qualifying Examination	10	---
3.	Entrance Examination	20	80
4.	Interview	10	20
5.	Physical Efficiency Test, Fitness Test, Sports Efficiency Test	30	-----
		20	



6.	Sports Achievements	10	---
	Total	100	100

Even though the Management has its own discretionary powers to fill the management quota seats, in order to sustain the quality of education, selection to these seats is also on the basis of merit. The minimum cut off mark set for management quota seats is very much higher than the University eligibility norms. Economic backwardness of the applicant is also considered along with his/her score in the qualifying examination for the admission. Even for admission under this quota, academic merit of the student is given weightage.

- **Admission to Ph. D. programmes.** Students with JRF can apply directly through the College Research Committee. Other candidates have to appear for the entrance examination of the University. The eligible candidates are allotted to Research Centres of the College according to their option. After consulting with the guide, the research student develops a research proposal and synopsis and then appears for an interface before the Research Committee which comprises of an external expert, research guide and the Head of the Institution. The selected candidates are admitted according to the University norms. Admission to Ph. D. programmes is conducted twice a year.

**2.1.3. Give the minimum and maximum percentage of marks for admission at entry level for each of the programmes offered by the college and provide a comparison with other colleges of the affiliating university within the city/district.**

Programme	Year	Entry Level			
		Christ College		Average of nearby Colleges	
		Max %	Min. %	Max %	Min. %
B. Sc. Mathematics	2013-14	92	76	90	77
	2012-13	91.5	75	95	77
	2011-12	92	74	89	78
	2010-11	90	57	92	79
B. Sc. Physics	2013-14	90	83	91	82
	2012-13	89.5	82	88	80
	2011-12	89	80	90	85
	2010-11	91	80	91	79
B. Sc. Chemistry	2013-14	95	78	93	76
	2012-13	94	77.5	94	75
	2011-12	93	77	94	77
	2010-11	94	77	90	75
B. Sc. Zoology	2013-14	89	67	90	69
	2012-13	88	66	91	68
	2011-12	87	65	91	70
	2010-11	89	62	89	62
B. Sc. Geology	2013-14	90	74	85	78
	2012-13	89	75	84	76
	2011-12	89	74	83	75
	2010-11	80	73	82	72



B. Sc. Computer Science (2012-13 onwards)	2013-14	74	60	76	61
	2012-13	81	65	79	62
B. Sc. Psychology (2012-13 onwards)	2013-14	73	60	76	61
	2012-13	70	61	80	64
B. A. Economics	2013-14	91	56	94	64
	2012-13	93	54	96	63
	2011-12	94	62	96	64
	2010-11	90	65	93	67
B. A. Functional English	2013-14	92	54	92	59
	2012-13	90.5	53	92.5	58
	2011-12	91	53	93	58
	2010-11	89	52	89	53
B. Com. (Aided)	2013-14	98	55	97	53
	2012-13	98	54	96	54
	2011-12	97	53	95	54
	2010-11	93	71	96	72
B. Com. (Self-financing)	2013-14	89	54	86	56
	2012-13	93	56	87	54
	2011-12	90	53	90	58
	2010-11	86	58	83	60
BCA (2013-14 onwards)	2013-14	65	50	68	51
BSW (2013-14 onwards)	2013-14	70	55	NA	NA
B.A Malayalam (2013-14 onwards)	2013-14	68	55	70	59
B P E	2013-14	76	41	NA	NA
	2012-13	70	46	NA	NA
	2011-12	73	43	NA	NA
	2010-11	80	48	NA	NA
M. Sc. Mathematics (2012-13 onwards)	2013-14	95	80	96	85
	2012-13	60	50	93	81
M. Sc. Physics	2013-14	95	80	91	75
	2012-13	94	81	93	72
	2011-12	93	78	95	75
	2010-11	94	79	92	74
M. Sc. Chemistry	2013-14	95	85	94	87
	2012-13	94.5	88	93	85
	2011-12	97	91	91	88
	2010-11	94	91	92	89
M. Sc. Zoology	2013-14	96	74	93	72
	2012-13	95	74.5	92	70
	2011-12	94	73	94	70.5
	2010-11	93	70	95	71.5



M. Sc. Environment Science	2013-14	83	70	NA	NA
	2012-13	81	68	NA	NA
	2011-12	80	65	NA	NA
	2010-11	82	70	NA	NA
M. Com.	2013-14	95	78	92	69
	2012-13	92	65	91	65
	2011-12	82	61	80	62
	2010-11	80	63	82	65
M. A. History	2013-14	87	63	80	69
	2012-13	86	62	82	65
	2011-12	86.5	61	80	62
	2010-11	85	61.5	82	64
M. A. Economics	2013-14	95	74	84	67
	2012-13	85	70	83.5	65
	2011-12	84	68	80	62
	2010-11	82	69	82	63
M. A. English (2013-14 onwards)	2013-14	88	79	NA	NA
M. Sc. Botany (2013-14 onwards)	2013-14	87	72	NA	NA

**2.1.4. Is there a mechanism in the institution to review the admission process and student profiles annually? If ‘yes’ what is the outcome of such an effort and how has it contributed to the improvement of the process?**

➤ **Review and outcome of the admission process**

The College has a very efficient mechanism to review the entire admission process.

- In the CAP conducted by the University, the delay in the publication of the rank list caused uncertainty in getting admission in colleges affiliated to it and also resulted in the late commencement of classes. Therefore, as soon as the list is ready in the University website, the selected candidates are intimated by the Heads of the Departments and are assured of their admission. If any selected candidate is not willing to join, then the awaiting candidates are intimated the confirmation of the seats.
- Generally the admission process takes place on a common day in all colleges. The uncertainty of getting admission in the case of awaiting candidates could be reduced by the Admission Committee by starting the admission process earlier and faster. For this, the administration wing with LAN facility is temporarily set up at the admission venue with sufficient counters to cover all levels of the process. It also helps candidates to move to other colleges if they were not summoned according to the merit position to join the College.
- After the common admission day, the Committee maintains the list of admitted students in each category and ensures that vacancies if any are filled up immediately from the rank list within the stipulated time span of the University.
- The vacancies arising in the category of SC/ST students are advertised in newspapers and in their absence they are converted to OEC category.
- In order to cater to the educational needs of the rural sector, students with excellent achievements in arts and sports programmes, who belong to the economically backward area are given due consideration.



- The review of the admission process helps to guarantee transparency and precision of the task and allotment of full seats to the students.

➤ **Student profile**

A student profile is prepared by the class teachers soon after the closing of the admission. Class teachers prepare the students' index cards during their interactions with them. The detailed information about the students helps to make an analytical study about their curricular, extracurricular strength, weakness and socio economic background.

- In order to accommodate more students from distant places, construction and extensions of the ladies' hostel has been completed.
- Since merit is the priority in the criteria of admission, sizeable number of students with good achievements can secure admission. At the same time attractive discounts are offered in fees in self-financing programmes for students who are good at extracurricular activities, financially backward, marginalized and meritorious irrespective of their caste and creed.
- Majority of the students of the College are from the rural pockets of Irinjalakuda and most of them lack good communication skills. Bridge programmes are arranged to improve their communication skills and personality traits.
- On the basis of the student profile, fee concessions, free noon meals and free-ships are offered for the economically backward students.
- Financial assistance is extended to outstanding achievers in sports competitions.

**2.1.5 Reflecting on the strategies adopted to increase/improve access for following categories of students, enumerate on how the admission policy of the institution and its student profiles demonstrate/reflect the National commitment to diversity and inclusion**

The Institution strictly adheres to the rules and regulations insisted upon by the University and the Government in the admission process and therefore it has limited opportunity to increase or improve the access of students from various reservation categories. The permissible reservation pattern to different categories like SC, ST, OBC and community is strictly followed.

**SC/ST/OBC:-** 20% seats are reserved for SC/ST category students and due relaxation in minimum percentage of eligibility marks as per the Government norms is allowed. The College takes all necessary steps to acquire the scholarships and fee concessions offered by the Government and disperse it to the students immediately. There is no reservation in the admission process for students from OBC category. However, the Management always takes necessary steps to relax the fee of students from financially backward families. (Details of the number students availing financial support is given in 5.1.2)

**Women:-** The Admission process does not offer any gender preferences as there is no such provision in the regulations of the University. However, girls percentage is more than that of boys in both UG and PG programmes. The Ladies' Hostel situated inside the campus offers the inmates protection and easy accessibility to the College. The College makes every effort to procure various kinds of eligible scholarships for girl students as per the Central and the State Government rules.

**Differently-abled:-** Three percentage of the open merit seats of UG programmes is reserved for differently-abled students. Out of the 3% seats, 33% seats is reserved for the visually challenged, 33% for the hearing impaired and 33% for the orthopedically challenged. Candidates who are medically certified as having minimum 40% disability alone are considered for admission.

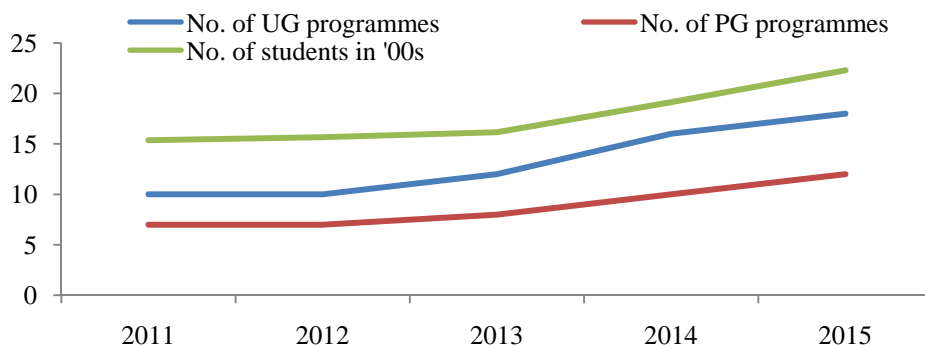


**Economically weaker sections:-** The State/University rules do not permit any reservation for students from economically weaker sections. Yet, 20% of seats under the management quota is set apart to increase the access of the economically weaker and marginalized sections. Partial or complete fee concessions, free-ships, free noon meals etc. are offered for deserving candidates so that they can pursue their higher education. Some of the Departments generate funds from generous students and the faculty to help the economically weaker students. The steps taken in these directions have helped to improve the access of students from weaker sections to higher education.

**Minority community:** - 10% seats are reserved as per the University and the Government norms for students belonging to the community that runs the College. Minority communities are given preference for admission in management quota to make up their inclusion in higher education.

Category	UG/PG	Number of students admitted to different categories			
		2013-14	2012-13	2011-12	2010-11
SC	UG	303	280	277	251
	PG	31	25	20	24
ST	UG	27	21	11	6
	PG	5	3	1	1
OBC	UG	631	539	405	436
	PG	51	45	26	43
Women	UG	999	894	822	814
	PG	135	95	88	90
Differently-abled	UG	14	10	9	8
	PG	2	2	1	3
Minority Community	UG	1142	1044	954	946
	PG	90	86	76	81
Percentage of Economically weaker students		65.3	68.5	70.8	72.5

**Progress in courses and students' strength from 2010-15**







**2.1.6 Provide the following details for various programmes offered by the institution during the last four years and comment on the trends. i.e. reasons for increase/decrease and actions initiated for improvement.**

The College offers 18 UG Programmes and 12 PG Programmes and there is a consistent demand of takers for these programmes. When the admission process is through the CAP scheme of the University the applications are not received by the colleges. Therefore, the demand ratio can be calculated only if the process is done through individual colleges. In the following table the details regarding the number of applications for admissions, number of students admitted and the demand ratio for UG and PG programme are given.

Programmes	Year	Number of Applications	Number of Students Admitted	Demand Ratio
B. Sc. Mathematics	2014-15	CAP	48	NA
	2013-14	CAP	48	NA
	2012-13	798	48	17:1
	2011-12	848	48	17:1
	2010-11	850	48	18:1
B. Sc. Physics	2014-15	CAP	48	NA
	2013-14	CAP	48	NA
	2012-13	916	48	20:1
	2011-12	842	48	17:1
	2010-11	849	48	17:1
B. Sc. Chemistry	2014-15	CAP	48	NA
	2013-14	CAP	48	NA
	2012-13	322	48	7:1
	2011-12	320	48	7:1
	2010-11	315	48	7:1
B. Sc. Zoology	2014-15	CAP	36	NA
	2013-14	CAP	36	NA
	2012-13	342	36	10:1
	2011-12	236	36	7:1
	2010-11	346	36	10:1
B. Sc. Geology	2014-15	CAP	36	NA
	2013-14	CAP	36	NA
	2012-13	403	36	11:1
	2011-12	325	36	9:1
	2010-11	350	36	10:1
B. Sc. Computer Science (2012-13onwards)	2014-15	CAP	24	NA
	2013-14	CAP	24	NA
	2012-13	90	24	4:1
B. Sc. Psychology (2012-13onwards)	2014-15	CAP	24	NA
	2013-14	CAP	24	NA
	2012-13	40	24	2:1
B.A. Economics	2014-15	CAP	60	NA
	2013-14	CAP	60	NA
	2012-13	580	60	10:1



	2011-12	600	60	10:1
	2010-11	575	60	10:1
B.A. Functional English	2014-15	CAP	40	NA
	2013-14	CAP	40	NA
	2012-13	112	40	3:1
	2011-12	128	40	3:1
	2010-11	140	40	4:1
B.A. English	2014-15	76	40	2:1
B. Com.	2014-15	CAP	60	NA
	2013-14	CAP	60	NA
	2012-13	2013	60	34:1
	2011-12	2010	60	34:1
	2010-11	1980	60	33:1
B. Com. Self- financing	2014-15	CAP	60	NA
	2013-14	CAP	60	NA
	2012-13	1574	60	26:1
	2011-12	1462	60	24:1
	2010-11	1312	60	22:1
BPE	2014-15	CAP	40	NA
	2013-14	CAP	40	NA
	2012-13	227	40	6:1
	2011-12	193	40	5:1
	2010-11	233	40	6:1
B.A. Malayalam (2013-14onwards)	2014-15	CAP	40	NA
	2013-14	84	40	2:1
BCA (2013-14onwards)	2014-15	CAP	24	NA
	2013-14	45	24	2:1
BSW (2013-14onwards)	2014-15	CAP	24	NA
	2013-14	56	24	2:1
M. Sc. Mathematics (2012-13 onwards)	2014-15	64	15	4:1
	2013-14	30	15	2:1
	2012-13	26	15	2:1
M. Sc. Physics	2014-15	109	12	9:1
	2013-14	103	12	9:1
	2012-13	93	12	8:1
	2011-12	CAP	12	NA
	2010-11	87	12	7:1
M. Sc. Chemistry	2014-15	105	12	9:1
	2013-14	103	12	9:1
	2012-13	75	12	6:1
	2011-12	CAP	12	NA
	2010-11	115	12	10:1
M. Sc. Zoology	2014-15	198	12	16:1
	2013-14	186	12	16:1
	2012-13	203	12	17:1
	2011-12	CAP	12	NA



	2010-11	191	12	16:1
M. Sc. Environmental Science	2014-15	35	12	3:1
	2013-14	22	12	2:1
	2012-13	84	12	7:1
	2011-12	CAP	12	NA
	2010-11	51	12	4:1
M. Sc. Botany (2013-14onwards)	2013-14	28	12	2:1
M. Sc. Statistics (2014-15 onwards)	2014-15	20	10	2:1
M. Sc. Geology (2014-15 onwards)	2014-15	21	10	2:1
M. A. Economics	2014-15	138	20	7:1
	2013-14	140	20	7:1
	2012-13	150	20	8:1
	2011-12	CAP	20	NA
	2010-11	140	20	5:1
M. A. History	2014-15	67	20	3:1
	2013-14	54	20	3:1
	2012-13	53	20	3:1
	2011-12	CAP	20	NA
	2010-11	52	20	3:1
M. A. English (2013-14onwards)	2014-15	46	15	3:1
	2013-14	40	15	3:1
M. Com.	2014-15	171	20	9:1
	2013-14	168	20	8:1
	2012-13	178	20	9:1
	2011-12	CAP	20	NA
	2010-11	164	20	8:1

The College always maintains a consistent demand ratio for all programmes offered by it. In the present higher education scenario in Kerala, it is observed that the number of students seeking admission to Arts and Science colleges is decreasing due to mushrooming of institutions in professional and IT sectors. However, the pleasant academic atmosphere and the work potential of the College in teaching learning process are regarded as the reasons for the stable demand ratio. The increase in the number of placements during the last four years is also a reason for the same.

## 2.2 Catering to Student Diversity

### 2.2.1 How does the institution cater to the needs of differently-abled students and ensure adherence to government policies in this regard?

In the admission process the College strictly adheres to all the University and the Government norms for the reservation seats of differently-abled students with 40% disability. 3 % of the open merit seats is reserved for differently-abled students. The College authorities have always shown a favourable attitude to differently-abled students by providing them facilities in the College as well as in the hostel. The College has undertaken the following special care measures to make them feel happy and confident. The number of differently-abled students



seeking admission to the College is comparatively very few. However, the following considerations are given to cater to their needs

- Orientation is given in the value education classes regarding the special care to be shown towards differently-abled students.
- The faculty, students and administrative staff take extra care to accompany and accommodate them comfortably.
- Wheelchair, if needed is provided by the College for the movement of the differently-abled.
- Classrooms are arranged according to their convenience.
- Hostel inmates/classmates give to accompany them which make commuting easy.
- Class teachers see that differently-abled students are well taken care of.
- Special fee concession is given to the differently-abled students from marginalized families as part of the Management policy even in the self-financing programmes.
- Time slots are extended and special seating arrangements are made for such students.
- Students with permission from the University are provided the assistance of scribes for appearing in examinations.
- Special concessional hostel fee is provided for students who are economically deprived and from marginalized families.
- There is a special section in the Administrative Office to deal quickly with scholarships and various incentives eligible for the differently-abled students.
- Personal attention is paid by the class teachers of these students to analyze their academic growth and to provide additional tutorial for the needy.

The infrastructural facilities provided to cater to the needs of the differently-abled students are given in 4.1.4

### **2.2.2 Does the institution assess the students' needs in terms of knowledge and skills before the commencement of the programme? If 'yes', give details on the process.**

After the admission process, the list of the admitted students of each programme is forwarded to the respective Departments.

- On the day of commencement of the classes the Heads of the Departments and the class teachers brief the students about the College atmosphere, examination pattern and evaluation process and also the scope of higher studies in their subject and job opportunities of the programme.
- The class teacher has frequent interactions with his/her wards to identify their strengths and weaknesses and recommends enrichment or remedial programmes.
- They record the socioeconomic status, different areas of interest and skills, hobbies and extracurricular background of their wards in the Student Index Cards.
- The class teachers inform the students about the various Add-on courses, opportunities in sports, fine arts and other extracurricular activities, offered by the College.
- Students are directed to seek counselling in academic matters if necessary.

### **2.2.3 What are the strategies adopted by the institution to bridge the knowledge gap of the enrolled students (Bridge/Remedial/ Add-on/Enrichment Courses, etc.) to enable them to cope with the programme of their choice?**

The College offers many programmes, both individual and collective to bridge the knowledge gap and skill gap.



- Teachers categorize the students as slow, medium and advanced learners according to the available information from the Student Index Cards and each category is given special attention.
- If any student is seen to be disoriented in his/her studies, the class teacher through his/her personal contact with them helps to give proper guidelines and motivates them to arouse interest in the subject
- Most of the slow learners, especially those who come from the Malayalam medium lack proficiency in English. Bridge programme in English speaking skills is conducted to improve their language proficiency. The Department of English conducts a UGC sponsored Add-on programme in Communication Skills which is beneficial for many students.
- Remedial classes are arranged for the benefit of slow learners. Departments arrange these classes after regular teaching hours or on holidays.
- Special attention and encouragement is given to improve various skills of students. Class teachers direct them to join the various Add-on programmes. The State Government sponsored programme – ASAP also helps to improve the skills of students. IT skills of all new entrants are improved through *IT Vijnan*, which is an intensive coaching on basics of computers, MS Office, Internet Browsing, e-mailing, etc.
- Value education classes are arranged every week to help the students to be morally upright citizens and to achieve their integrated growth.

#### **2.2.4 How does the college sensitize its staff and students on issues such as gender, inclusion, environment etc.?**

**Gender:** The present curriculum prescribed by the University offers discussions on these issues through course contents of various programmes. The objectives are to develop an unbiased attitude towards gender to lead a morally rooted life and to create a gender balanced ambience in the society through gender equity and inclusiveness.

- The admissions to various programmes are irrespective of gender and are open for all which is well exemplified by the present gender wise strength of students. At present nearly 60% of UG and 90% of PG students are women.
- A good percentage of elected class representatives are women.
- The Women's Development Cell of the College aims to equip the girl students to meet the challenges faced by the girl students and to bring out their full potential as the capital for their own development.
- Every year, the Women's Development Cell organizes various women empowering programmes like seminars, legal awareness programmes, quiz programmes, essay competitions, presentation contests and extension activities like training programmes in fashion designing and handicrafts and other related activities which help to build positive image of women and improve their social participation.
- The Cell has also organized rallies and meetings to protest against the atrocities towards women like Delhi gang rape case etc. The Women's Development Cell of the College celebrates the International Women's Day on every year.

**Inclusion:-** Even though this is a minority Institution its opportunities are open to all, irrespective of caste and creed, privileged and unprivileged etc. It is very keen to include takers from all the sections and communities of people, thus giving a chance for progress and a better future.

- In order to give opportunities for poor students in self-financing programmes financial support and fee concessions are extended with the cooperation of staff and students



- It offers various promotional measures like fee concessions, endowments, scholarships, prize money and other incentives at Government and Institutional level. The scholarship section in the Office gives timely information about these and dispenses them.
- The programmes organized under Equal Opportunity Centre are meant to uplift the marginalized to the mainstream.
- Students are encouraged by the class teachers to help out among themselves both academically and financially to create a sociable mindset that promotes inclusion of the underprivileged.
- Slow learners are given special attention to cope with others through various measures like remedial coaching, tutorials, etc.

**Environmental issues:-** The College is in the forefront of all activities to protect the environment and conserve an eco-friendly campus.

- *Bhoomithrasena* Club of the College organizes seminars, extension lectures, quiz competitions, essay competitions, debates and nature camps to promote environmental awareness among students and to maintain community hygiene. They also conduct quiz programmes and poster presentations on different environmental issues.
- The Biodiversity Club of the College is very active to protect and maintain the Biodiversity of the campus and surrounding areas by planting saplings, educating the public and conducting awareness programmes.
- On every 5th June, the College celebrates World Environmental Day by planting saplings in the campus. In connection with the FIFA world cup 2010 and 2014, the Department of Botany, Environmental Science students and *Bhoomithrasena* Club jointly organized many programmes to popularize the conservation of environment. They planted saplings not only in the campus but in many neighboring institutions and Government offices with the slogan “One Goal One Tree”. All distinguished guests visiting the College are requested to plant saplings.
- Solar panels are installed for power generation. *Thadayanas* are constructed and water tanks are fixed in the campus for rain water harvesting and ground water recharging.
- The NSS units also conduct many extensive activities to keep the campus plastic free as far as possible. They conduct many one-day works, seven-day camps, etc. to clean the campus, neighboring hospitals, road sides etc. They maintain a botanical garden in the campus and also a waste management system. Worm composting to minimize the use of chemical fertilizers is their new venture by them and instead to apply worm compost.
- The students undertake similar campus cleaning programmes as a part of their CSS insisted on by the University for the UG students.
- To create awareness about the measure to tackle environmental issues like earthquakes, Tsunami and floods, College started a PG diploma programme in Disaster Management.
- The Department of Commerce has started a wastepaper recycling project to minimize solid waste pollution.
- The various awards won by the College are an acknowledgement of the efforts taken by the Institution to maintain an eco- friendly campus.

### **2.2.5 How does the Institution identify and respond to special educational /learning needs of advanced learners.**

The Institution takes special interest to identify the advanced learners by means of the data base of the students prepared at the beginning of the course. The College organizes special coaching programmes to give awareness about advanced courses for advanced learners, which will help them to dream of a bright future. With the help of funds from the UGC and



Central Government, the College organizes coaching classes for Civil Service Exams and career orientation programmes for advanced learners.

- The College library with a special wing for recent books, CD ROMs and journals helps advanced learners to tackle/prepare for competitive examinations
- The College also organizes coaching programmes for UGC/CSIR to enhance progression to higher studies and research.
- The Kerala Government Higher Education Department sponsored programme Walk With a Scholar has been initiated since 2014 for the benefit of advanced learners
- Students are encouraged to participate in subject oriented quiz programmes conducted by other institutions.
- The College takes serious initiative to encourage the students to apply for various scholarship programmes like IISER, INSPIRE, etc.
- Students are given opportunities to interact with eminent persons when they visit the Departments/College in connection with seminars and conferences.
- Various endowments are instituted by the College, the alumni, retired teaching and non teaching staff and well wishers to boost the morale of advanced learners.
- Advanced learners are encouraged to participate and present research papers in seminars, workshops and competitions within and outside the College.

The following is the list of eminent persons visited the college to deliver endowment lectures and invited talks

Sl. No	Name and Designation	Purpose of Visit
1.	Dr. A P J Abdul Kalam, Former President of India.	To felicitate Dr. K Radhakrishnan, Alumnus on his assignment as ISRO Chairman.
2.	Dr. K. Radhakrishnan, ISRO Chairman.	To facilitate on successful launching of Mangalyan Project.
3.	Dr. Manoj Lazar, University of Melbourne.	Seminar on <i>Research Methodology</i> for P G Students.
4.	Dr. Rajeshkumar N V, Research Associate Faculty, Department of Oncology, John Hopkins University USA.	A talk on <i>Pancreatic Cancer</i> .
5.	Dr. Jose Kallarackal, CSIR Emeritus Scientist.	Talk on <i>The Roots of Environmental Problems in Kerala</i> .
6.	Dr. Dileep Vasudevan, Research Fellow at NOVARTIS, Singapore.	Invited lecture on <i>Protein Crystallography</i> .
7.	Dr. K T Arasu, Professor, Wright State University, Ohio, USA.	Seminar on <i>Hadamard Matrices</i> .
8.	Dr. Rajeevkumar V R, JSPS fellow, Tokyo Institute of Technology, Japan.	Seminar on <i>Nanotechnology</i> .
9.	Dr. Ramesh Babu, Professor, CUSAT.	Seminar on <i>Postulates on Quantum Mechanics and Mysteries in Physics</i> .
10.	Dr. M P Muraleedharn, Former Director, Geological Survey of India, Kerala Circle	Lecture on <i>Earth Science: A Few Concepts and Some Concern</i> .
11.	Dr. T B Suma, Scientist – B, Forest	Talk on <i>DNA Bar-coding in Forensic</i>



	Genetics and Biotechnology Division, Kerala Forest Research Institute.	<i>Research.</i>
12.	Dr. V A Vijayan, Professor and Chairman, Department of Zoology, University of Mysore.	Talk on <i>Drosophila Genetics</i> .
13.	Mr. K Rajagopal, Media Consultant, Executive Director, Media One.	Talk on <i>English in Functional Scenario</i> .
14.	Mr. P C Syriac IAS, Former Chief Secretary, Tamilnadu.	Talk on <i>Are the Gadgil –Kasthurirangan Reports Against Agriculturists?</i>
15.	Prof. Roqaiya alias Salma. Eminent Tamil writer and social activist.	Seminar on <i>Gender Politics and Literature</i> .
16.	Dr. Charles Dominic, Assistant Professor, Department of Basic Sciences, Rajagiri School of Engineering and Technology.	Seminar on <i>Introduction to Graph Theory</i> .
17.	Dr. Anuradha S Prakash, Alumnus, Scientist B, ISRO.	Talk on <i>Advanced Trends in Astrophysics</i> .
18.	Dr. Balagangadharan, Scientist, KCSTE.	Talk on <i>Intellectual Property Rights</i> .
19.	Prof. G.Archunan, Professor and Head, Department of Animal Sciences, Bharathidasan University, Trichy.	Seminar on <i>Current Trends in Pheromone Technology</i> .
20.	Dr. Ajith Kumar B P, Scientist (H) IUAC, New Delhi.	Workshop on <i>EXPEyes</i> .
21.	Dr. B.V. Sasikumar, Reader, Department of Malayalam, Kerala University.	Talk on <i>Contemporary Malayalam Poetry</i> .
22.	Dr. P.Krishnanunni, Deshbandhu College, University of Delhi.	Invited Lecture on <i>Introducing Gabriel Garcia Marquez</i> .
23.	Dr SVM Satyanarayana, Central University of Pondicherry.	Workshop on <i>Complex Algebra</i> .
24.	Dr. P. S. Easa, Director, Kerala Forests Research Institute, Peechi.	National Seminar on <i>Environment and Science</i> .
25.	Dr. Babu Joseph, former Vice Chancellor, CUSAT.	Invited lecture on <i>Crisis in Cosmology</i> .
26.	Dr. V C Kuriakose, Former Head of the Department, CUSAT.	Invited Lecture on <i>Seeing the Universe</i> .
27.	Dr. Girijavallabhan, Emeritus Professor.	Seminar on <i>The Evolution of Laser</i> .
28.	Dr. Ajith Kumar, President and Leading Scientist, Light Logic Holography and Optics, Trivandrum.	Workshop on <i>Holography: Sculpturing Light</i> .
29.	Mr. E Madhavan, General Manager, RBI, Cochin.	Invited Lecture on <i>The Global Meltdown and RBI Measures to Counter it</i> .
30.	Mr. Neelakantan C R, Deputy General Manager, Keltron, Trivandrum.	Seminar on <i>Environment and Development</i> .
31.	Dr. N G Pillai, Emeritus Scientist and former Director, CMFRI Cochin..	Invited Lecture on <i>Marine Fisheries</i> .
32.	Dr. S Sankar, Senior Scientist, Kerala Forest Research Institute.	Talk on <i>Food from the Forest-edible Biodiversity</i> .





33.	Prof. Jovin George, The Indian Institute of Planning and Management.	Talk on <i>Personality Development, Body Language and Communication Skills.</i>
34.	Mr. George Thomas, Director, ESAF Microfinance and Investment Ltd.	Seminar on <i>Innovations in Microfinance.</i>
35.	Dr. Sunil Narayanankutty, Professor, Department of Polymer Chemistry, CUSAT.	Science Academies' Lecture Workshop on <i>Supramolecular Chemistry and Nano Science.</i>
36.	Dr. Prathapan Sreedharan, Reader in Organic Chemistry, CUSAT.	Lecture on <i>Organic Spectroscopy.</i>
37.	Mr. C Ravindranath, Associate Professor, St. Thomas College Thrissur and MLA Pudukkad Constituency.	Seminar on <i>Social Relevance of Chemistry.</i>
38.	Mr. N Madhavankutty, Media Person.	<i>Media Ethics.</i>
39.	Dr. P T Ramachandran, Department of Mathematics, University of Calicut.	Talk on <i>Kerala School of Mathematics.</i>
40.	Dr. K P Many, John Mathai Center for Economics, University of Calicut.	Talk on <i>Asean Treaty.</i>
41.	Dr. T V Sankar, Head, Quality Assurance and Management Division, Central Institute of Fisheries Technology (CIFT).	Endowment Seminar on <i>Food Safety and its Importance in General Well-being.</i>
42.	Dr. Francis Xavier, Professor and Head, Cattle Breeding Farm, Kerala Agricultural University	Extensive lecture on <i>Ecological Damage and Fauna- Kerala.</i>
43.	Mr. G. Sankar, Business executive, Cliniminds, Kerala.	Invited talk on <i>Opportunities in Clinical Data Management.</i>
44.	Mr. T M Sebastian, Director Maritime and Mercantile Academy, Cochin.	Extensive Lecture on <i>Career Opportunities Marine and Mercantile Sector.</i>
45.	Ms. Leslie Augustine, Reporter, Mathrubhumi.	Invited lecture on <i>Women and Media.</i>
46.	Dr. Vinod Kumar P B, Associate Professor, Department of Mathematics, Rajagiri College of Engineering.	Seminar on <i>Fractal Geometry.</i>
47.	Dr. P Mohamed Shafi, Retired Professor, Department of Chemistry, University of Calicut.	Seminar on <i>Conformational Analysis and Isomerism of Organic Molecules.</i>

### 2.2.6 How does the Institute collect, analyze and use the data and information on the academic performance of the students at risk of dropouts.

- The College has taken several steps to identify and minimize dropouts. It keeps an eye on the academic activities of every student by regularly monitoring the attendance at the end of each period which is compiled by the class teacher. The decline in the percentage of attendance of the student is a pointer to those at risk of dropouts.
- Internal examinations are conducted by the College for both UG and PG students as per the College calendar. The marks of these internal assessments and the performance in seminars and assignments are used to analyze the academic performance of the student.
- From the data available from the attendance and internal marks, a list of possible dropouts is collected.



- The class teacher conducts meetings with such students along with their parent and the various problems faced by them are discussed. If they have any financial problems such students are provided financial assistance, free meals and free hostel accommodation. If the student suffers from any kind of psychic problem the College itself provides counselling facility for his/her guidance.
- Slow learners are given remedial coaching and tutorial sessions to keep pace with the medium and advanced learners.
- The Student Support Programme sponsored by the Government of Kerala has been initiated by the College since 2014 onwards.
- Question bank supplied to the weak students helps them to approach exams in a better manner.
- Class teachers play a vital role in minimizing the dropout rate due to learning disabilities. They hold frequent meetings with their wards having such disabilities and orient them through mentoring.
- Despite all these efforts there are dropouts due to marriage and placements in higher jobs and higher studies. The few who tend to discontinue due to marriage are encouraged to rejoin and continue their studies.

## **2.3 Teaching Learning Process**

### **2.3.1 How does the college plan and organize the teaching, learning and evaluation schedules? (Academic calendar, teaching plan, evaluation blue print, etc.)**

#### **Academic calendar**

- At the beginning of every academic year, the College prepares a detailed Hand Book for the use of students and staff. It includes a brief history of the College, details about programmes offered by various Departments, month wise expected teaching days, holidays and tentative internal examination dates, various curricular and co-curricular bodies and their objectives.
- In order to ensure uninterrupted teaching hours and vacant class rooms, the Timetable Committee prepares a general Timetable with modifications if necessary.
- The Heads of Departments convene meetings to discuss the distribution of Departmental workload and prepare Departmental Timetable. While assigning topics, preference is given to the area of specialization and academic acumen.
- The activities of the Departmental forums of students are also planned in the meetings of student representatives and the faculty.
- The dates of programmes like seminars, invited talks, debates, workshops, quiz, etc organized by the various curricular and co-curricular bodies are planned in the meetings of the coordinators of the respective bodies and student representatives with minimal interruption of teaching hours.
- The IQAC prepares a general academic calendar for each semester in compliance with the University of Calicut academic calendar. This general academic calendar, showing the entire year plan is supplied to all the Departments by the IQAC. It gives information about the number of working days and expected teaching days in each month, dates of internal examinations, percentage of topics to be completed before examinations, dates of assignments publication of internal marks, etc. Copies of this schedule are circulated to each Department and are displayed in class rooms.
- The faculty prepare individual academic calendars and teaching plans in tune with this general academic calendar.



- Monthly test papers are also planned and conducted by the faculty, besides the scheduled internal exams, seminars and assignments for a given term. Care is taken to ensure that necessary portions are covered prior to each activity.
- The Heads of Departments make internal arrangements to engage the free hours due to the faculty on leave.

### **Teaching plan**

- The Principal holds a staff meeting in the beginning of every academic year to chalk out an academic plan. Suggestions and inputs from the faculty are solicited and decisions are taken in this collaborative discussion.
- The Heads of Departments convene Departmental meetings to distribute the workload among the members of the Department. The syllabus of each paper is discussed and the faculty are directed to prepare the teaching plan.

The individual teaching plan is prepared with due consideration to complete the syllabi satisfactorily. It allows monitoring the progress of the teaching process at any particular time of the academic year. Students are informed about this individual academic planning and its copies are forwarded to the IQAC Office. The Heads of Departments monitor the implementation of this Departmental planning. It is ensured that 50% to 60% of the topics are covered prior to the first internal exam and the whole syllabus is completed prior to the second internal cum model exam. Extra hours on Saturdays or on afternoons are arranged so as to achieve the target satisfactorily before the internal examinations. The faculty conducts self evaluation about the progress of the topics discussed and Department meetings are held to audit the academic transaction at the end of the semester.

### **Evaluation blue print**

- The evaluation process mainly consists of external and internal examinations, assignments and seminar presentations which enhance the integral growth of students.
- The College appoints two Examination Committees: one to conduct the internal examinations and another for University examinations. In each semester the first committee conducts two internal examinations apart from the usual class tests. The second internal examination is according to the University examination pattern. The part of the syllabus to be included for the semester examinations and the dates of examinations are given in the general academic calendar. Moreover, the schedule of internal examinations is displayed in the students' notice board well in advance. The academic calendar includes the dates for submitting the internal question papers and the mark sheets after valuation. The soft copy of the question paper is handed over to the examination section prior to each internal by the Heads of the Departments and they are printed under College supervision. The secrecy of the question paper for the internal exams is strictly maintained. The evaluation of answer sheets is completed two weeks after the commencement of exam.
- The ability of students in presenting a topic comprehensively and expressing their views on it are evaluated through class assignments. The skills of students in presentation, articulation and confronting the audience are evaluated through the presentation of seminar topics. The physical presence of students is ensured through hourly attendance which is collected and recorded by the College Office.
- The consolidated internal scores are published in the Department notice board. The scheme for preparing consolidated internal scores is conveyed to the students by the class teacher. At the Department level some of the teachers use Excel based spreadsheet to prepare the consolidated internal score. The attendance and scores obtained by students in seminar, assignment, monthly tests and internal marks are considered for of internal marks. Thus the performance of each student can be assessed continuously at any given point of time. The



final score is calculated by the University according to the ratio of internal and external scores as per the recommendation made by the Board of Studies concerned.

### **2.3.2 How does IQAC contribute to improve the teaching –learning process?**

Since its inception, IQAC has played a significant role in maintaining the quality as well as supplementing various kinds of the teaching learning methodologies.. Timely directions are given to the faculty to improve the teaching process. Recommendations are also given to the College Governing Body to improve the infrastructure with a view to enhance the quality of teaching. It suggests programmes to be included to achieve academic excellence. The IQAC itself has taken the initiative to conduct four seminars of which one was with financial support from NAAC.

- Two-day work shop on Methodology Course in the Curriculum for Undergraduate Programme (Science) in 2011 with the sponsorship of Kerala State Higher Education Council.
- Two-day NAAC sponsored seminar on Quality Sustenance in Higher Education: Challenges and Prospects of Academic and Research Transactions in 2011.
- One-Day Workshop on Intellectual Property Rights sponsored by Patent Information Centre – Kerala in 2012.
- One-day Workshop on Research Orientation and Methodology in 2014 for the benefit of PG students.

The following are interventions of IQAC in teaching learning process.

- Insisted on starting a need based Add-on course by each Department and making it mandatory for all first year UG students.
- Support and directions given to prepare the syllabi of Add-on courses and submitting the proposal to UGC
- Assistance in the preparation of the syllabus and proposal for starting UGC funded innovative programme.
- Renders help in the preparation of the College hand book
- Preparing of a well planned academic calendar and its monitoring at all levels.
- Recommended to the Management to enhance the infrastructural facilities of the College to facilitate better teaching learning process using ICT enabled technologies like LCD projectors, laptops, LED monitors and other accessories and smart class rooms.
- Encouraging the faculty to use ICT enabled teaching and other e learning gadgets
- Internet connectivity in all Departments to keep abreast of emerging topics in all subjects
- Encouraged to include application of software, projector web resources and e-learning resources available from NPTEL in the teaching methods.
- Lecture notes made available to students using CDs, Pen drives, e mails to compensate the loss of absentees and help slow learners.
- Additional resources in library: including online access to e-journals with subscription, digital data base, DELNET and INFLIBNET and other digital resources to supplement teaching and taking references.
- Installation of new computers in the library and at the internet café to facilitate free access to students.
- Keeping track of the mandatory percentage of topics to be completed prior to each internal exam
- Recommended to open a new Computer Lab with more than 50 monitors, internet connectivity, multimedia TV display monitor, etc
- Encouraged some Departments to conduct online internal examinations.



- Maintaining constant contact with all Departments and ensuring publication and documentation of student evaluation process.
- Recommended to conduct internal examinations of all programmes, including PG under the centralized Examination Committee to improve the efficiency.
- Promoted student centric teaching methodology with mandatory seminars presentations using ICT resources.
- Initiative to conduct remedial coaching classes for weak students.
- Recommended to install LAN facility among Departments and Office for data transfer.
- Gave guidelines and inputs to enhance Departments to the status of research centres.
- Encouraged to conduct national and international academic events like seminars, workshops and conferences.
- Bringing to the attention of staff and students the new schemes, research projects and various financial aids introduced by the Government and other funding bodies and encouraging them to avail of it.
- Encourages the faculty to submit proposals for research projects and assists them to prepare the project proposal.
- Promoted the publication of the research journal 'Research Review', with the primary aim of providing a platform for faculty, PG students as well as researchers to publish their findings.
- Systematic documentation of the programmes organized by the various bodies of the College, achievements of students and faculty through monthly IQAC Newsletter.
- Preparation of proposals and reports required by various agencies for different purposes.
- Preparation and submission of AQAR
- Regular evaluation of students' feedbacks on curriculum, teaching learning process and infrastructure facilities.
- Conducts meeting at least once in three months and recommendations are brought to the attention of College Management and Governing Body.

### **2.3.3 How is learning made more student-centric? Give details on the support structures and systems available for teachers to develop skills like interactive learning, collaborative learning and independent learning among the students?**

In the teaching-learning methodology, the focus from teacher centered pedagogy has been shifted to learner centered pedagogy. The College keeps pace with this current system to supplement/complement the conventional teacher centric system. This is done by introducing new schemes and providing supporting infrastructure facilities

- All Departments are enabled with internet access through LAN/WiFi Desktop computers and laptops, overhead projectors, smart class rooms etc for effective up to date knowledge sharing.
- The science Departments are equipped with well set laboratories which help to generate curiosity through readily accessible experimental facilities and museums with a vast array of specimen collections for self learning.
- Fully equipped language laboratory and library with a number of computers equipped with internet access helps students to explore the world of knowledge.
- Access to DELNET and INFLIBNET, digital lecture collections and reference materials, block models etc.
- Various programmes like quiz competitions, debates, invited talks, presentation contests, etc organized by curricular and co-curricular bodies give insight into emerging multidisciplinary topics



- Opportunities are created for students of other streams to visit Museums and other facilities available in the science laboratories.
- UG and PG students are entrusted to give demonstrations on various laboratory equipment and their applications on the occasion of visits of higher secondary students to the College campus, thus facilitating Experiential and Experimental learning.
- The extensive talks and quiz programmes organized by Departmental forums of students create an interdisciplinary platform for sharing and acquiring new ideas and knowledge.
- The research journal “Research Review” provides a good opportunity for PG students, research scholars and faculty to publish their dissertation and research findings.
- The faculty are encouraged to attend workshops, seminars and training programmes organized by other institutions to improve their professional skills.
- In order to get research exposure, PG students are encouraged to present research papers in seminars/conferences organized by other institutions.
- Field study, tours and industry visits to promote interactive and collaborative learning.
- Use of ICT both by teachers and students has enabled the College to develop newer e gadgets.
- Reporting contemporary findings in the field of study to stay connected with the rapidly advancing stream of science.
- Group discussions, group assignments, debates and interdepartmental presentation contests that require extended reading and library references are conducted to promote independent learning.

#### **2.3.4 How does the institution nurture critical thinking, creativity and scientific temper among the students to transform them into life-long learners and innovators?**

Focus on inducing scientific temper, creativity and critical thinking among students is the prime concern of the College.

- All UG and PG programmes have Departmental forums to conduct invited talks, quiz programmes and extension lectures on emerging topics to make the students enthusiastic about topics of study.
- The College has set up various co-curricular and extracurricular Clubs and Forums to nurture students’ talents and critical thinking. Exclusive sessions of invited lectures, exhibitions and quiz programmes are organized for students with opportunities to interact with resource persons. This helps them to widen their thinking. Students are given chance for active participation in the organizing of academic meetings and invited talks which generate creativity. Students are encouraged to attend various quiz programmes and academic meetings organized by neighbouring institutions.
- In connection with the National Science Day on 27<sup>th</sup> February, the Science Club of the College organizes extensive lectures on various topics to generate a scientific temper among students.
- Visits to national level institutions, the higher centres of learning and research are conducted by certain Departments.
- Research orientation talks are conducted every year for PG students by the IQAC to promote research culture.
- The Quiz Club conducts quiz competitions on various themes in the College at intra and interdepartment level. The Club. also prepares students to participate in quiz competitions organized by other institutions.
- In the Choice Based Credit Semester System for UG programme Creative Thinking has been introduced as a topic of study.



- A Film Club functions in the College to give training in direction, script writing, acting, videography and computer video editing. Students have produced four short films during last four years.
- The Debate Club organizes debate competitions on relevant topics. Last year the Club conducted debates on topics like Autonomous College: Challenges and Opportunities and Reservation of Seats in Parliament for Women Empowerment, etc.
- Various programmes like *Pookkalam* Competition along with Onam, Christmas Carol Competition with Christmas celebrations, painting and drawing competitions are conducted to promote creativity.
- In order to encourage creativity of students, exhibitions of handmade products and eco-friendly articles are organized every year.
- Students are given freedom to express their views and ideas in Students' Parliament meetings.
- Students are involved in administrative affairs of the College through Students' Parliament activities which include publication of Students' Magazine, preparation of documentaries and film films and celebrations of various festivals.

**2.3.5 What are the technologies and facilities available and used by the faculty for effective teaching? Eg: Virtual laboratories, e-learning - resources from National Programme on Technology Enhanced Learning (NPTEL) and National Mission on Education through Information and Communication Technology (NME-ICT), open educational resources, mobile education, etc.**

The College has strong infrastructure facilities to make the teaching learning experience effective.

- All Science Departments have separate laboratories for UG and PG programmes. Audio visual language lab, multimedia home theatre, Computer Labs, internet connectivity in all Departments with WiFi facility, internet café with unlimited download facility, smart class rooms, ICT enabled class rooms, e-learning room, etc are provided.
- Some of the science Departments conduct demonstrations of laboratory experiments which are equivalent to the use of virtual laboratories.
- Technology is extensively pressed into the service of campus teaching learning process for optimizing e learning.
- The technologies available for effective teaching include Computational Work-Station, application of software, projector web resources and e-learning resources available from NPTEL. Open educational web resources from prime institutes (IITs, IISc, MIT, etc) around the world are extensively used and referred to give additional information on various topics. This includes audio and video lectures, demonstrations using real time simulators and other models and tools to display certain processes and concepts. This enables the students for virtual learning of the theoretical class room lessons.
- A good number of digital data bases and library resources are available including those of DELNET and INFLIBNET, e-books and e-journals, etc.
- Various licensed software packages are extensively used to display and communicate difficult concepts and models to students. For example, Satellite Images are used for viewing geographical area and describing its geo morphological and land use attributes, whereas ArcGIS and ERDAS software packages are used to display various thematic layers on the same geographic area.
- The faculty access syllabi aligned e-learning materials offered in Google Applications for Education, Scholar Portal, Learning programmes by UGC, etc.



- The IQAC of the College shows ardent interest in promoting the ICT enabled teaching methods besides the traditional teaching methods.
- The College plans to provide e learning facility using FIST grant offered by DST.

**2.3.6 How are the students and faculty exposed to advanced level of knowledge and skills (blended learning, expert lectures, seminars, workshops etc.)?**

- The Faculty and students are offered exposure to developing knowledge and skills by encouraging them to participate in summer institutes, seminars, workshops, training programs, conferences etc. organized by various institutions and present research papers. (Number of participations and presentations in international, national and seminars and workshops attended by the faculty is given in 3.1.5)
- The Faculty are encouraged to attend refresher courses organized by various universities to strengthen their professionalism.
- Interdisciplinary lectures are organized on various topics both for faculty and students every year.
- Some of the students are engaged in certain field works like photography, film recording, accounting and auditing which help them to acquire field experience, exposure to developing skills, which are more market oriented.
- Many teachers practice the conventional method of class room teaching together with modern computer-mediated activities. They demonstrate the theoretical concepts discussed in various subjects through ample modern infrastructure facilities like ICT enabled class rooms, LED monitors, and internet connectivity provided by the Institution.
- The academic community on campus is consistently exposed to the latest trends in their respective areas of study.
- At the Institutional level, various Departments organize national and international seminars, invited talks, endowment lectures, extensive lectures, workshops and presentation contests which expose students and faculty to advanced developments in their respective topics

Sl. No.	Organizing Department	Topic and Resource Person
1.	Physics	Seminar on <i>Evolution of Stars</i> by Prof. Papputty, Retired Professor.
2.	Physics	Workshop on <i>Python Language</i> by Prof. V. Purushothaman, Associate Professor, Department of Physics, Sree Kerala Varma College, Thrissur.
3.	Physics	Invited talk on <i>The Evolution of Laser</i> by Dr. Girijavallabhan, Emeritus Professor.
4.	Physics	Awareness Programme on <i>Holography: Sculpturing Light</i> by Dr. Ajith Kumar, Scientist, Light Logic Holography and Optics, Trivandrum.
5.	Economics	Invited talk on <i>Asean Treaty</i> by Dr. K P Many, John Mathai Centre for Economics, University of Calicut.
6.	Economics	Dr. Jeromi Memorial lecture on <i>The Global Meltdown and RBI Measures to Counter it</i> by Mr. E Madhavan, RBI, Cochin.
7.	Chemistry	Seminar on <i>Organic Spectroscopy</i> by Dr. Prathapan Sreedharan, Reader in Organic Chemistry, CUSAT, Cochin.
8.	Malayalam, Sanskrit, Hindi	Invited talk on <i>Impact of Globalization in Kerala</i> by Ms. Dhanya Babu, Chairperson, St. Joseph College Irinjalakuda.





9.	Malayalam, Sanskrit, Hindi	Lecture cum Demonstration on <i>Traditional Performing Arts</i> by Prof. Usha Nangyar and Mr. Krishnan Nambiar, Mizhavu Kalari, Chathkudam.
10.	Malayalam, Sanskrit, Hindi	Invited talk on <i>Dr. Sukumar Azhikode Smruthy</i> by Prof. T P Sudhakaran, Associate Professor, Department of Malayalam, Sree Kerala Varma College, Thrissur in connection with World Mother Tongue Day.
11.	Zoology	Seminar on <i>Environment and Development</i> by Mr. Neelakantan C R, Deputy General Manager, Keltron, Trivandrum.
12.	Zoology	Seminar on <i>Food Safety and its Importance in General Well-being</i> by Dr. T V Sankar, Head, Quality Assurance and Management Division, Central Institute of Fisheries Technology(CIFT).
13.	Zoology	Invited lecture on <i>Food from the Forest-edible Biodiversity</i> by Dr. S Sankar, Senior Scientist (Retired), Kerala Forest Research Institute Peechi.
14.	Zoology	Talk on <i>Man and Mangroves</i> by Dr. Vidyasagar, Associate Professor, College of Forestry, Kerala Agriculture University, Mannuthy.
15.	Zoology	Talk on <i>Pancreatic Cancer</i> by Dr. Rajeshkumar, N V, Research Associate Faculty, Department of Oncology, John Hopkins University U S A.
16.	Zoology	One day Workshop on <i>Molecular Genetics, Evolution</i> .
17.	Zoology	Invited talk on <i>Evolution of Social Systems</i> by Dr. Jeevan Job Thomas, Research Scholar, Department of Physics, Mahatma Gandhi University, Kottayam.
18.	Zoology	Extensive lecture on <i>Ecological Damage and Fauna- Kerala</i> by Dr. Francis Xavier, Professor and Head, Kerala Agricultural University.
19.	Zoology	Invited talk on <i>Opportunities in Clinical Data Management</i> by Mr. G. Sankar, Business executive, Cliniminds, Kerala.
20.	Zoology	Seminar on <i>Protein Crystallography</i> by Dr. Dileep Vasudevan, Research Fellow at NOVARTIS, Singapore.
21.	Mathematics and Statistics	Invited talk on <i>Scope and Applications of Statistics-An overview</i> by Dr. Sunoj S M, Assistant Professor, Department of Statistics, CUSAT.
22.	Commerce	Workshop on <i>Personality Development, Body Language and Communication Skills</i> by Jovin George, Professor, The Indian Institute of Planning and Management.
23.	Commerce	Extensive Lecture on <i>Career Opportunities Marine and Mercantile Sector</i> by Mr. T M Sebastian, Director Maritime and Mercantile Academy, Cochin.
24.	Commerce	Workshop on <i>Taxation</i> by reputed Chartered Accountants Mr. Shihad Moideen, Mr. Radahkrishnan and Mr. Pramod Prabhu.
25.	Chemistry	Invited lecture on <i>Symmetry and Hilarity</i> by Dr. P Sreenivasan, Retired Professor, Layola College, Madras.
26.	English	Workshop on <i>Media Ethics</i> by Mr. N Madhavankutty, Media Person, Thrissur.
27.	English	Extensive lecture on <i>Image Creation – A Cinematic Approach</i> by Mr. Jain Joseph, Media Executive, Voice, Thrissur.



28.	English	Invited Lecture on <i>Challenges of Journalism</i> by Davis Pynadath, News Editor, Deepika, Thrissur.
29.	English	Workshop on <i>Improving Speaking Skills</i> Dr. Latha Nair, Associate Professor, Department of English, St. Theresa's College, Ernakulam.
30.	English	Invited lecture on <i>Women and Media</i> by Ms. Leslie Augustine, Reporter, Mathrubhumi.
31.	English	Workshop on <i>Theatre Arts Training and Performance</i> by Mr. Renju Chandran, Research Scholar, School of Performing Arts, University of Pondicherry.
32.	Mathematics and Statistics	Seminar on <i>Fractal Geometry</i> by Dr. Vinod Kumar P B, Associate Professor, Rajagiri College of Engineering, Ernakulam.
33.	Mathematics and Statistics	Seminar on <i>Hadamard Matrices</i> by Dr. K T Arasu, Wright State University, Ohio, USA.
34.	Mathematics and Statistics	Seminar on <i>Fundamentals of Abstract Algebra</i> by Mr. Shinoj K M, Assistant Professor, Devagiri College, Calicut.
35.	Mathematics and Statistics	Seminar on <i>Introduction to Real Analysis</i> by Mr. Joju K T, Associate Professor, Department of Mathematics, Prajyothi Nikethan College, Pudukkad.
36.	Mathematics and Statistics	Invited lecture on <i>Kerala School of Mathematics</i> by Dr. P T Ramachandran, Department of Mathematics, University of Calicut.
37.	Mathematics and Statistics	Invited lecture on <i>Bhashayaum Ganithavum</i> by Prof. M K Chandran, Retired Head of the Department of Mathematics, Christ College, Irinjalakuda.
38.	Mathematics and Statistics	Invited lecture on <i>Introduction to Stochastic Process and Queuing Theory</i> by Mr. Anoop N Nair, Assistant Professor, Department of Applied Science, College of Engineering, Perumon.
39.	History	Invited lecture on <i>Koodiyattom: A Medieval Temple Performing Art</i> by Mr. Sooraj Nambiar, Koodiyattom Performer, Unnaivarier Smaraka Kalanilayam, Irinjalakuda.
40.	English	Seminar on <i>Career Functions of English</i> by Dr PK Babu, Associate Professor and Head of the Department of English, KAHM Unity College, Manjeri.
41.	English	Workshop on <i>Theatre Arts Training and Performance</i> by Mr. Renju Chandran, Research Scholar, School of Performing Arts, University of Pondicherry.
42.	English	Seminar on <i>Gender Politics</i> by Eminent Tamil writer and social activist Roqaiya alias Salma.
43.	Geology and Environmental Science	Seminar on <i>Earth Science: A Few Concepts and Some Concerns</i> by Dr. M P Muraleedharn, Former Director, Geological Survey of India, Kerala Circle.
44.	Sanskrit, Hindi, Malayalam	Invited lecture on <i>Scope of Malayalam Language in the Universal Setup</i> by Professor I. Shanmughadas.
45.	Sanskrit, Hindi, Malayalam	Talk on <i>Are the Gadgil –Kasthurirangan Reports Against Agriculturists?</i> By Mr. P C Syriac IAS, Former Chief Secretary, Tamil Nadu.



46.	Mathematics and Statistics	Seminar on <i>Introduction to Graph Theory</i> by Dr. Charles Dominic, Assistant Professor, Department of Basic Sciences, Rajagiri School of Engineering and Technology, Cochin.
47.	Mathematics and Statistics	Invited lecture on <i>Introduction to Chartered Accountancy</i> by Mr. Pramod Prabhu, Chartered Accountant.
48.	Mathematics and Statistics	Invited lecture on <i>Application of Density Theorem</i> by Mr. Albert Antony, Assistant Professor, Department of Mathematics Panampilly College, Chalakudy.
49.	Mathematics and Statistics	Invited lecture on <i>Differential Geometry</i> by Dr. N Mangalambal, Associate Professor, St. Joseph's College, Irinjalakuda.
50.	Zoology	Invited lecture on <i>Biology of Elephants</i> by Dr. T S Rajeev, Project Leader, Elephant Studies Division, Kerala Veterinary and Animal Sciences University, Mannuthy.
51.	Zoology	Seminar on <i>Drosophila Genetics</i> by Dr. V A Vijayan, Professor and Chairman, Department of Zoology, Mysore University.
52.	Zoology	Workshop on <i>DNA Barcoding in Forensic Research</i> by Dr. T B Suma, Scientist – B, Forest Genetics and Biotechnology Division, Kerala Forest Research Institute Peechi.
53.	Chemistry	Seminar on <i>Conformational Analysis and Isomerism of Organic Molecules</i> by Dr. P Mohamed Shafi, Retired Professor, Department of Chemistry, University of Calicut.
54.	Physics	Extensive lecture on <i>Postulates of Quantum Mechanics</i> by Dr. Ramesh Babu, Professor, Cochin University of Science and Technology.
55.	Physics	Extensive lecture on <i>Mysteries in Physics</i> by Dr. N. Shaji, Associate Professor, Maharaja's College, Ernakulam.
56.	Social Work	Orientation talk on <i>Social Work Profession and its Relevant</i> by Dr. Jaya Cheriyan, Head, Department of Social Work, Vimala College, Thrissur.
57.	Zoology	Invited lecture on <i>The Roots of Environmental Problems in Kerala</i> by Dr. Jose Kallarackal, CSIR Emeritus Scientist.
58.	Commerce	Invited lecture on <i>Infromatica: A Data Source for Business</i> by Dr. Vasanthakumar, Associate Professor, Department of Commerce, NSS College, Ottappalam.
59.	Physics	Seminar on <i>Electronic, Communication Networks</i> by Mr. Santhosh, Head, Technical Section, Radio Mango, Thrissur.
60.	Geology and Environmental Science	Invited lecture on <i>Geology: Prospects and Challenges</i> by Mr. A K Manoj, Assistant Geologist, Mining and Geology Department, Thrissur.
61.	Mathematics and Statistics	Invited lecture on <i>Contributions of Indians to Mathematics</i> by Dr. Geetha K V, Head of the Department of Mathematics, St. Joseph's College, Irinjalakuda.
62.	English	Workshop on <i>English in Functional Scenario</i> by Mr. K Rajagopal, Media Consultant, Press academy Kakkanad, Former Executive Director, Media One.
63.	English	Invited lecture on <i>English: A Global Language</i> by Mr. Erina Yakobaya, Trainer, German National Pursuing Kathakali Training at Kerala Kalamandalam.



64.	Geology and Environmental Science	Invited lecture on <i>Mangroves</i> Dr. Sheela Francis, Department of Botany, Sree Kerala Varma College, Thrissur.
65.	Chemistry	Invited lecture on <i>Chemistry in Real Life</i> by Dr E A Jose, Head of Department of Chemistry, St. Thomas College, Thrissur.
66.	Chemistry	Seminar on <i>Chemistry of Pheromones</i> by Dr. K R Janardhanan, Retired Professor, NSS College, Ottapalam.
67.	Chemistry	Seminar on <i>Nanotechnology</i> by Dr. Rajeevkumar V R, JSPS fellow, Tokyo Institute of Technology, Japan.
68.	Computer Science	Workshop on <i>Android</i> by Mr. Mohammed Rayees P K, Director, GUI Application in Android Platform.
69.	Economics	Invited lecture on <i>Health Care System in Kerala</i> by Dr. George Mathew, Orthopedic Surgeon and Producer of the Film 'Apothikkiri'.
70.	Economics	Invited lecture on <i>Dynamics of Women Empowerment and the Need for Capacity Development Programme in Kerala</i> by Dr. Haseena, Assistant Professor, Department of Economics, MES Asmabi College, P Vemballur.
71.	Economics	Seminar on <i>Changing Phases of Women in Agriculture</i> by Dr. Vimala M, Department of Economics, Vimala College, Thrissur.
72.	Economics	Seminar on <i>Economic and Social Perspective on Time Management by Women in Kerala</i> by Dr. Remya R, Associate Professor, Department of Economics, Govt. College Kuttanellur.
73.	English	Invited lecture on <i>Introducing Gabriel Garcia Marquez</i> by Dr. P. Krishnanunni, Senior Lecturer in English, Deshbandhu College, University of Delhi.
74.	Malayalam	Workshop on <i>Contemporary Malayalam Poetry</i> by Dr. B.V. Sasikumar, Reader, Department of Malayalam, University of Kerala.
75.	Malayalam	Invited lecture on <i>Classical Arts of Kerala</i> by Dr. Rajan Nambiar, Ace Performer and Researcher.
76.	Physics	Seminar on <i>EXPEyes</i> by Dr. Ajith Kumar B P, Scientist (H) IUAC, New Delhi.
77.	Physics	Awareness talk on <i>Mangalyan Project</i> by Dr. Anuradha S Prakash, Scientist, ISRO, Bangalore.
78.	Zoology	Seminar on <i>Current Trends in Pheromone Technology</i> by Prof. G. Archunan (Coordinator - center for pheromone technology), Professor and Head, Department of Animal Sciences, Bharathidasan University, Tiruchirappalli.
79.	Zoology	Invited Lecture on <i>Climate Change</i> by Dr. C Vimala, Associate Professor, Dept. Of Zoology, S. N. College, Nattika.
80.	Zoology	Invited talk on <i>Current Trends in Pheromone Technology</i>
81.	Economics	Invited lecture on <i>Health Status of Muslim Women in Kerala</i> by Dr. Haseena Beevi A A, Head, Department of Economics, SN College, Alathur.
82.	Economics	Invited lecture on <i>Community Housing Projects in Kerala</i> by Dr. V.O Baby, Associate Professor, St. Joseph College, Irinjalakuda.
83.	Economics	Invited lecture on <i>Economics of Crime</i> by Mr. R K Jayaraj, Crime Branch SP, Thrissur.



### **2.3.7 Detail (process and the number of students \benefitted) on the academic, personal and psycho-social support and guidance services (professional counseling/mentoring/academic advise) provided to students?**

The College offers on-campus support and guidance services which cater to the needs of students. These include academic orientation, professional counselling, psycho-socio support, etc. at different platforms.

- At the first level, at the beginning of every academic year, one-day life orientation sessions are arranged for all students. Expert professional Counsellors like Rev. Fr. Paul Pottakkal and Rev. Fr. Wilson Tharayil were the resource persons in these sessions in the recent years.
- At the second level, value education classes provide a venue for class wise counselling and guidance. The faculty actively involve as resource persons in these sessions. These classes can be termed as a spiritual exercise to each student for a self examination to ward off damaging influences. Topics that are discussed in these sessions instill moral values and self confidence in students' minds to make them psychologically integrated and intellectually competent.
- At the third level, importance is given to personal attention of students, especially to those who are academically disoriented and mentally disturbed. The class teachers play a significant role through mentoring their ward after class hours. The Class teachers meet their wards frequently which help to establish a rapport between faculty and students allows them to know the background of students who need special attention. This personal attention of the class teacher enables the academically disoriented and mentally weak students to move into the mainstream. Class teachers empower their wards by boosting their morale to face the challenges of life. Financial help is also extended to the needy students by certain Departments. The Management has given discounts in tuition fees to the needy students including those in the self-financing category.

**Counselling Centre:-** In addition to the tutorial and mentoring of the class teachers, the service of a full time Counsellor is provided in the College to solve the socio psycho issues of students. If the efforts taken by class teacher are insufficient to tackle the issues the student is advised to seek the service of the in-house Counsellor. The support and cooperation of parents is also requested if needed. The issues reported by the Counsellor are mainly behavioural problems, adolescent problems, learning disabilities etc. During the last four years the number of students benefitted by this facility is 47. One or two cases were referred to the opinion and assistance of experts from psychiatrists due to emotional imbalance

### **2.3.8 Provide details of innovative teaching approaches/methods adopted by the faculty during the last four years? What are the efforts made by the institution to encourage the faculty to adopt new and innovative approaches and the impact of such innovative practices on student learning?**

The commonly used instructional methods are classroom lectures, practical sessions, laboratory experiments, problem solving sessions, group discussions etc. However, the last four years witnessed a rapid increase in the use of technology based teaching learning process. The emerging scenario of learning and technological advancements has changed the time-old concept of teacher-centered education. The paradigm shift to ICT enabled education has made the teaching learning process more students centric. The faculty have wholeheartedly accepted this paradigm shift and the Institution provides all infrastructure facilities to encourage it.

- The Institution encourage student centric education system by providing computers, projectors, ICT enabled class rooms, language labs state of the art facilities.



- The Faculty use software models and simulations to help students understand the concepts that are being discussed in the class.
- Teaching through internet accessed references, supplemented with tools like films, demonstrational videos and other audio visual gadgets are highly promoted by the Institution.
- The curriculum offered by Choice Based Credit Semester System necessitates the use of ICT enabled teaching learning. Students are given web based assignments and seminar topics. Some of the teachers communicate with students through emails and skype for sending lecture notes and clarifying doubts.
- Some students especially from science subjects do their assignments on computer and e-mail it to the teachers who evaluate them online and send the results to the students. Students and Departments are encouraged to use web based free-wares including various programs (R- programs), software and operating systems (eg. Linux), which help them to use the emerging technologies, free of cost. Group email IDs are created for students in each class and they are used to forward class notes and assignments to their friends students as soft copy.
- Students are encouraged to prepare Power Point Presentations on their project work and to attend webinars organized by various agencies (For example Science webinar) to introduce new and popular concepts in the field.
- Other inclusive and innovative teaching learning methodologies added to the system are experimental and experiential learning through lab work, study tours and industrial visits.
- The College offers all technical support to accept the paradigm shift in the teaching learning process. It has procured the resources from all funding agencies especially UGC to provide the infrastructure that will facilitate this paradigm shift. It has provided sufficient number of computers, projectors and easy internet access. The Department of Computer Science organizes annual exhibitions and workshops to promote technical knowledge and skills.

**Result:** The ICT aided learning helps to foster sustainable learning. It has also improved the standard of teaching as well as learning. The learners are exposed to novel methods of research which enrich their free and innovative thinking. ICT makes curriculum implementation learner centric as students create their own self study environment through ICT aided assignments. Thus ICT is used as a ladder to democratize and globalize education through learner autonomy. Moreover, the progressive increase in the number of placements achieved by the students/alumni belonging to rural sectors, during the last four years is testification of the innovative approaches made in student centric learning.

### **2.3.9 How are library resources used to augment the teaching- learning process?**

- The library in the College provides a resource centre, with a collection of more than 70000 books, journals, compiled volumes of reference series, nearly 150 CD ROMs, etc. for research, teaching and learning purposes. The faculty and students also have personal access to electronic resources through DELNET and INFLIBNET.
- The library is equipped with several computers with internet access to help the students to access various full text journal articles and book chapters, which are either freely accessible or subscribed by the library.
- Reprographic provisions are also arranged adjacent to the library. The collections of books are being updated to cater to the new and emerging trends in various disciplines by introducing new books and resources in the field as per the faculty suggestions and requirements.



- The library has specific areas for reading and reference activities for students and the faculty. Students can easily collect study materials and references related to the seminar topics, assignments using the library resources. The library thus makes the learning process more user-friendly.
- The Library catalogue can be accessed through the computers to locate the books easily. The services of the library are fully automated using strong computer software, bar-coding system and student friendly search mechanism.
- The library is open from 8.00 am to 5.00 pm. The Library Committee ensures that the library services are properly maintained and constantly updated with current reading and reference materials.
- Some of the Departments also have a library so as to have ready reference for the faculty and students.
- The library is kept under CCTV surveillance to ensure appropriate use and safety of books and other resources.

### 2.3.10 Compilation of the Curriculum- challenges and mitigation strategies:

There are a number of challenges faced in completing the curriculum within the semester schedule due to a number of unforeseen interference from various sectors. The following are the major challenges faced by the faculty towards achieving this goal.

Challenges	Mitigations
<ul style="list-style-type: none"> <li>• Challenges faced by the College due to uncertainties in the conduct of University examinations and timely publication of results. There are many occasions, where the exam of previous semester is conducted after the commencement of a new semester, which causes loss of working days.</li> </ul>	<ul style="list-style-type: none"> <li>• The IQAC prepares an academic calendar for each semester giving the expected teaching days in each month and tentative dates of internal exams and the faculty are directed to strictly follow the time frame given in this calendar</li> </ul>
<ul style="list-style-type: none"> <li>• The <i>Harthal</i> and <i>Bandhs</i> by various political parties due to regional and state political turmoils lead to loss of working days. The strikes by private bus operators also affect student turn out since majority of them depend on public transportation for commuting to and from the College.</li> </ul>	<ul style="list-style-type: none"> <li>• To provide an opportunity for students to participate in the democratic set up of the nation the College allowed politics in the campus in a moderate and independent way. However, the loss of working hours was effectively minimized via an innovative and effective system of protest.</li> <li>• For example: if the student wing of a particular political party calls for a Statewide strike it is restricted to the terminal hour of the FN/AN session, allowing the smooth conduct of classes during the rest of the day and its implementation is strictly insisted upon. This system was being successfully followed in the College for two years</li> <li>• However, the College Governing Body decided to quash this privilege as per the provision of the order: (W.A.No.535 of 2003 – Judgment dated 26-05-2003) of the Honourable High Court of Kerala, when it</li> </ul>



	felt that the political freedom was becoming detrimental to the academic atmosphere.
<ul style="list-style-type: none"><li>• Failure in the timely publication of approved syllabi prior to the commencement of the programme</li></ul>	<ul style="list-style-type: none"><li>• Before the commencement of the classes the faculty or the IQAC take the initiative to contact the members of the Board of Studies to verify the syllabi to be followed.</li></ul>
<ul style="list-style-type: none"><li>• Frequent valuation camps in an academic year insisting upon colleges to suspend teaching learning process and send the faculty to attend the valuation camps.</li></ul>	<ul style="list-style-type: none"><li>• Without resorting to close the College a special Timetable is prepared so that the available members of the faculty may engage classes. Loss of working days is compensated via additional classes on holidays and extra hours in the mornings and afternoons whatever inconveniences this may entail.</li></ul>

The academic cum teaching plan prepared by the teachers for each semester gives the details of the special classes conducted by them during each month.

### **2.3.11 How does the institute monitor and evaluate the quality of teaching learning?**

The quality of teaching and learning is effectively monitored both at the Departmental level and Institutional level. A third level of evaluation is practiced via student feedback collected at the end of each semester.

- After the beginning of each period, a member of the Office staff collects the attendance of students which enables to know whether any of that class is left free due to any reason.
- The Heads of Departments ensure the topics are satisfactorily completed before the commencement of exams and convene meetings to discuss the self evaluation of the faculty about the teaching process.
- Analysis of internal and external examination results and the quality of teaching is made by the Principal in staff meetings.
- The feedback regarding the teaching learning process collected at three levels is another process of evaluating the quality of teaching. At the first level, teacher directly collects feedback from the students and in the second level the Principal periodically interacts with students and collects the filled up evaluation forms from them. The parent teacher meetings are another venue to collect feedback.

## **Teacher Quality**

### **2.4.1 Provide the following details and elaborate on the strategies adopted by the college in planning and management (recruitment and retention) of its human resource (qualified and competent teachers) to meet the changing requirements of the curriculum**

#### **Recruitment**

Even though Christ College is an Institution owned by a minority community, the Management gives priority to educational qualifications, proficiency, efficiency, merit and related competencies of the applicants, not caste and creed in the recruitment process. Therefore, to select the most competent candidate from the eligible applicants, the strategy of the Management is to strictly follow the provisions in the University Act, Statutes, Ordinances and regulations amended from time to time, promulgated in tandem with the Government of Kerala and UGC norms. The following steps are taken in this regard.

- In order to draw attention of maximum number of candidates, the vacancies are advertised in two leading English dailies (The Hindu and The Indian Express) and three leading





vernacular dailies (Malayala Manorama, Mathrubhoomi and Deepika). A maximum period of 30 days is given for aspirants to apply for the posts in the prescribed form, which can be purchased from the College Office. The advertisement is also posted on the official Website of the College.

- A selection committee is constituted by the Management. The members of the committee are the Principal of the College, a nominee from the panel of Secretaries to the Government of Kerala, or the District Collector, one subject expert chosen from a subject-wise list of experts prepared by the University and a representative of the Management. Apart from the Government nominee and the subject expert from the University list, the Management also includes one subject expert from among the senior faculty of the College in that subject.
- In the selection process, preference is given to candidates with excellent academic track records, research degrees, publications in peer reviewed journals and presentations in conferences and seminars. Besides these criteria, those candidates who are capable of assimilating and propagating the values that the Institution stands for are given preference.
- Candidates with consistently good academic records with first class throughout, or Ph. D, M. Phil., M. Litt., D. Sc. etc. are given special preference in the selection. These additional qualifications are given special credit in computing marks out of 40, set apart for academic qualification (University of Calicut Order No: GA II/ F3/3788/11).

The success and progress of the Institution over the last five decades was essentially due to a community of good teachers, who are committed to their vocation, professionally competent, morally upright, just and humane in dealings and who impart the true vision of education. The freedom to appoint new teachers so as to cater to the changing requirements of the curriculum is very limited. However, due consideration is given to the specialization and additional qualifications of the candidates to meet the same. Thus the good heritage and the acceptance of the Institution in the academic community through the excellent performance make candidates proud of getting employment in this College.

### Retention

- A period of one year is considered as probation period, before giving permanency to the post. During the probation period the newly appointed candidates are assessed based on their capability of dealing with the Vision and Mission of the Institution.
- Periodical suggestions and recommendations to set some internal standards of quality are provided if needed.
- If the Institution finds their performance satisfactory their position is confirmed, otherwise the probation period will be extended.
- Newly appointed teachers are encouraged to attend orientation programmes and also seminars and conferences on the theme of enhancement and sustenance of quality of education.
- Attractive annual increments are given even to the guest faculty

The scheme of weightage and benefits for additional qualifications are given in the following table.

Scheme of weightage	Max. Marks	Qualification	Max. Marks
Academic qualification (Ph D :10 and M Phil : 5)	40	NET	Nil
Publications	8	NET + M. Phil.	05



Presentations	4	NET + Ph. D	15
Research Projects	5	M. Phil. (Before 92)	Nil
Teaching experience	10	Ph. D. (Before 93)	10
Additional approved PG degree	3	JRF/SRF/M. Litt/ D. Litt/ D. Sc	5
Pedagogical Skills	5		
Interview	25	M. Phil + Ph. D	5
Total	100	(without NET/ JRF)	

The following table gives the qualification wise profile of the faculty of the College

Highest Qualification	Professor		Associate Professor		Assistant Professor		Total
	Male	Female	Male	Female	Male	Female	
<b>Permanent Teachers</b>							
D. Sc/D.Litt.	--	--	---	---	---	---	---
Ph. D.	--	--	24	1	10	5	40
M. Phil.	--	--	10	1	4	4	19
PG	--	--	8	1	4	4	17
<b>Faculty on Contract (Aided and Self-Financing Programmes)</b>							
Ph. D.	--	--	----	---	2	1	3
M. Phil.	--	--	---	---	---	1	1
PG	--	--	---	---	10	33	43
<b>Visiting Faculty</b>							
Ph. D.	---	----	3	3	---	---	6
M. Phil.	---	---	1	----	---	---	1
PG	---	---	1	---	----	---	1

**2.4.2 How does the institution cope with the growing demand/ scarcity of qualified senior faculty to teach new programmes/ modern areas (emerging areas) of study being introduced (Biotechnology, IT, Bioinformatics etc.)? Provide details on the efforts made by the institution in this direction and the outcome during the last three years.**

Changes in curriculum with advanced topics and decreasing number of competent senior faculty is a common issue in Higher Education Institutions. To discuss the emerging topics, the following measures are adopted.

- Globalization has transformed the demands of education throughout the world. The College has introduced UG programmes in BCA, B. Sc. Computer Science, BSW and PG programme in Environmental Science. Fifty percentage of the faculty have a Ph D degree and most of them are engaged in research activities. Many of them have vast research experience, expertise and are invited as resource persons for giving extension lectures in neighbouring educational institutions. Therefore they are competent enough to deal with emerging/modern areas.
- Involvement in research activities is another opportunity for the quality improvement of the faculty in the concerned subject. The College has taken steps to utilize the FDP scheme of UGC for the completion of Ph. D effectively. During the last four years, twelve members of the faculty were awarded Ph. D and of them six have availed this scheme of



UGC. Four members of the faculty have submitted their thesis and are awaiting viva voce examination.

- The Management always encourages the faculty to attend refresher courses, national and international conferences/seminars and workshops so as to update themselves with the knowledge and developments in each topic thereby equipping them to handle the emerging areas.
- The College takes initiatives to enhance PG Departments as Research Centres and during the last four years four Departments were approved as Research Centres by the University. The research exposure of the faculty creates ample opportunities to strengthen their professional competency to deal with modern topics.
- For the appointments to the vacancies that arise due to periodical retirements, the Management gives due attention to the specialization of the applicants. This enables the selection of competent persons to discuss new topics introduced in the revised curriculum. During the last five years nearly 35 teachers were appointed in various Departments and all of them are qualified to cope with the new topics.
- The Management also appoints retired faculty from this College and other colleges as visiting faculty. Their expertise and experience help to streamline the newly introduced programmes.
- The College also takes care to provide better financial incentives to get qualified and competent faculty to teach new topics.

#### **Outcome**

The College does not face any dearth of qualified teachers in delivering the revamped curriculum. All the above mentioned initiatives taken by the College have improved the performance dimension of the College.

#### **2.4.3 Providing details on staff development programmes during the last four years elaborate on the strategies adopted by the institution in enhancing the teacher quality.**

The Institution always takes the initiative to arrange developmental and enrichment programmes to keep teachers abreast of the recent developments in the subjects.

- The College has conducted two international conferences and eight national seminars and nine State level seminars, in addition to the various self-funded lectures and endowment talks (Details given in 3.7.4).
- The IQAC is also very keen in organizing academic meetings to enhance and sustain the teacher quality.
- The Management provides adequate infrastructure facilities for improved ICT enabled teaching learning process
- The faculty are motivated to update themselves by participating in national and international level seminars and conferences.

#### **a) Nomination to staff development programmes**

<b>Sl. No.</b>	<b>Academic Staff Development Programmes</b>	<b>Number of faculty nominated</b>
1.	Refresher courses	12
2.	HRD programmes	19
3.	Orientation programmes	25
	Staff training conducted	



4.	by the University	5
5.	Staff training conducted by other institutions	9
6.	Summer / winter schools, workshops, etc.	4

**b) Faculty Training programmes organized by the institution to empower and enable the use of various tools and technology for improved teaching-learning**

➤ **Teaching learning methods/approaches**

- The Department of Chemistry organized a UGC sponsored workshop on Methodology of Teaching Chemistry in 2010. Dr. S. Chandrasekharan, Dean of Faculty of Science, IISC, Bangalore was the chief guest.
- The IQAC organized a two day NAAC sponsored seminar on Quality Sustenance in Higher Education: Challenges and Prospects of Academic and Research Transactions in 2011. NAAC Peer Team members Dr. Tharsis Joseph and Dr. Stephan Mathews, were the resource persons.
- IQAC organized a talk on Importance of Values in Modern Education Scenario by Rev. Fr. Paul Thelakkat, Editor of *Sathyadeepam weekly* (English Edition) and spokesman of Syro Malabar Church.
- IQAC organized a talk on St. Kuriakose Elias Chavara – A Social Reformer by Mr. John Paul, renowned film script writer, was the resource person.
- IQAC organized a talk on Agonies and Ecstasies of Autonomy. Resource Person - Dr. Joe Jesudurai, Dean of Physics, Loyola College, Chennai.

➤ **Handling new curriculum**

- The IQAC organized a two day work shop on Methodology course in the curriculum for undergraduate programme (Science) in 2011 with the sponsorship of Kerala State Higher Education Council. The meeting, apart from concentrating on the newly introduced system, also discussed the aspects of using modern tools for a better teaching-learning process.
- The Department of English organized invited lectures on Challenges of Journalism by Mr. Davis Pynadath, News Editor, Deepika, Thrissur and on Improving Speaking Skills by Dr. Latha Nair, Associate Professor, Department of English, St. Theresa's College, Ernakulam.

➤ **Content/knowledge management**

- The IQAC and Patent Information Centre jointly organized a one day workshop on Intellectual Property Rights. Dr. Suresh Nair, Chief Technology Officer, SFO Technologies (NeST Group Company) inaugurated the seminar.
- The Department of Physics organized a one day seminar on Python language. Prof. V. Purushothaman, Associate Professor from Sree Kerala Varma College, Thrissur was the resource person.

➤ **Selection, development and use of enrichment materials**

- The Department of Physics organized a seminar on Holography: Sculpturing Light (Holography and its Applications). Resource Person was Dr. Ajith Kumar, President and Leading Scientist- Light Logic Holography and Optics, Trivandrum

➤ **Assessment**

- The IQAC demonstrated to the faculty the preparation of consolidated internal valuation scores using MS Office Excel Spreadsheet

➤ **Cross cutting issues**

- Talk on Environment and Development delivered by Sri Neelakantan C R, Deputy General Manager, Keltron, Trivandrum.



- Talk on Man and Mangroves delivered by Dr. Vidyasagar Associate Professor, College of Forestry, Kerala Agriculture University, Mannuthy.
- Department of English organized a lecture on the topic Women and Media Ms. Leslie Augustine, Reporter, Mathrubhumi, was the resource person.

➤ **Audio Visual Aids/multimedia**

- The Department of English organized an invited lecture on Media Ethics. Resource person: Shri. N. Madhavankutty, Renowned Media Person.
- Training for the faculty in use of Smartboard, LCD and Digital Visualiser conducted by the Efficient Communicators, Thrissur in 2012.

➤ **OERs**

- IQAC has encouraged to include application of software, projector web resources and e-learning resources available from NPTEL in the teaching methods

➤ **Teaching learning material development, selection and use**

The faculty of Departments of Science have been trained in advanced techniques in Molecular Chemistry, Nano Physics, Molecular Biology where sophisticated instruments are used. This training has enabled them to enhance their efficiency of the teaching.

**Percentage of faculty**

Invited as resource persons in Workshops/Seminars/Conferences organized by external professional agencies: 35%

Participated in external Workshops/Seminars/Conferences recognized by national/international professional bodies: 53%

Presented papers in Workshops/Seminars/Conferences conducted or recognized by professional agencies: 45%

**Strategy of the institution**

- Promote ICT enabled teaching facilities.
- Persuade the faculty to acquire research degrees and extend full support for updating knowledge.
- Encourage teachers to present research papers in national and international conferences, seminars etc.
- Insist the faculty to submit proposals to undertake major and minor research projects for financial support.
- Extend support to conduct academic meetings like seminars, invited talks, etc.
- Sending the faculty to attend seminars and conferences organized by other institutions.
- Provide infrastructure facilities required to improve the quality of teaching.
- Timely updating of the facilities and resources in the library required to enhance the quality of teaching.

**2.4.4. What policies/systems are in place to recharge teachers? (eg: providing research grants, study leave, support for research and academic publications teaching experience in other national institutions and specialized programmes industrial engagement etc.)**

The College believes that education can be globalized only through adequate focus on research and innovations and only through this can the human resources be recharged. With this in view the Management appoints teachers with academic and professional competency, and encourages them to explore new avenues for their further professional betterment.

- The Department of Zoology has been recognized Research Centre of the University of Calicut since 1973. In keeping with its policy to help facilitate the research activities of the faculty, the Management has taken earnest steps to elevate many Departments to Research



Centres. During the last five years, the Departments of Physics, Environmental Science, History and Economics were approved as Research Centres. Now the College has six approved Research Centres. The Management also encourages its faculty to apply for appointment as approved research guides at various centres.

- The policy of the Institution is to persuade the faculty to acquire Ph. D. degree and it is ready to extend full support for this. The Management, on several occasions, has released advance amount to such faculty if they have difficulty, due to delay in salary disbursements. The teachers are also encouraged to avail the FDP scheme offered by UGC for doing research.
- To create opportunities to recharge the faculty, IQAC gives proper guidelines to submit proposals to UGC to get financial support for undertaking research projects and also for conducting seminars and conferences.
- The Institution provides separate project rooms for those who undertake major projects.
- The Management is ready to send the faculty to foreign universities to involve in research activities provided they get permission from the Government.
- It is in-built in the policy of the Management to encourage the faculty and grant leave to attend seminars, workshops and summer institutes for academic enrichment.
- The Science Departments of the College are supported with FIST grant offered by the DST.

**2.4.5. Give the number of faculty who received awards / recognition at the state, national and international level for excellence in teaching during the last four years. Enunciate how the institutional culture and environment contributed to such performance/achievement of the faculty.**

The College is happy to place on record the awards won by the faculty. These awards vouch for the valuable services rendered by them to the student community and society. The following list gives the details in this regard.

1. **Young Scientist Award:** Dr. Sudhikumar A. V. Department of Zoology bagged the National Level Young Scientist award for the year 2013 instituted by the Science and Engineering Research Board (SERB) of the DST.
2. Dr. E. M Thomas, Department of Economics, received the **national level Award** for the Best Teacher instituted by All India Association of Christian Higher Education (AIACHE).
3. Dr. E M Thomas, Dept. of Economics received '**Memorial literary Award for the year 2014 instituted by Congregation of Malabar Mission Brother Louis Manjaly Brothers for the book**' Dr. P J Thomas Keynes of Kerala.
4. Dr. K T Thomas, Department of History, has been unanimously elected to the Executive Committee of the **Indian History Congress** in its session held at Punjab University, Patiala.
5. Dr. Leyon Varghese Department of Zoology, has been awarded international internship (at University of Roehampton, UK) to one of the faculty sponsored under the FLAIR scheme of Government of Kerala for quality enhancement.
6. Prof K J Thomas, Department of Physical Education, was elected as the expert from Kerala to the working group of **Sports and Physical Education, under the Department of Sports, Ministry of Youth Affairs and Sports**.
7. Shri Sony John T, Department of Physical Education, was elected as **South Indian Regional Secretary of Sport Psychology Association of India**.
8. Dr. A. V. George, Department of Geology, won **St. Berchman's Award for the Best Teacher** from St. Berchman's College, Changanassery



9. Dr S. Sreekumar, Department of Geology, was honoured with the *Award for the Best Teacher in Kerala (Science)* instituted by Konniyoor Narendranath Memorial Trust.
10. Dr. A. V. George, Department of Geology, received the *Best Teacher Award instituted by the Prof. S. Shivaprasad Foundation*.
11. Dr. E M Thomas, Department of Economics, won *Mar Cardinal Antony Padiyara Award for the Best Catholic Writer* in Kerala instituted by *Sathyadeepam* weekly during 2011-12.
12. Dr. K T Thomas, Department of History, has been nominated by the SCERT, Government of Kerala as an academic expert to take final decision on the disputes pertaining to social studies syllabus and Hand Book.
13. Prof. Sebastian Joseph, Department of Malayalam was awarded *Ezhuthanipuraskaram* by Coimbatore Malayali Samajam, Coimbatore for designing a certificate course in Malayalam for the first time in India for nonresident Keralites as well as non Malayalis.
14. Dr. A V George, Department of Geology was nominated to the syndicate of Cochin University of Science and Technology.
15. Dr. K T Thomas, Department of Chemistry has been nominated to the National Executive of Indian History Council.
16. Dr. K T Thomas, Department of History, received Prof. M M Ghani Award for the Best Teacher from the University of Calicut.
17. Dr. E.M Thomas, Department of Economics, received the Best NSS Programme Officer Award from the University of Calicut.
18. Dr S. Sreekumar, Department of Geology, won M.M. Ghani Award for Best Teacher in the University of Calicut in Science for the year 2010.
19. Dr V. D. John, Department of Chemistry, won M.M. Ghani award for Best Teacher in the University of Calicut in Science for the year 2011.
20. Dr. A. V. George, Department of Geology, Appointed as the Vice Chancellor of Mahatma Gandhi University, Kottayam.
21. Dr. C O Joshi, Department of Zoology, has been nominated as the Syndicate Member of University of Calicut while Dr. Rev. T M Jose, College Principal, Prof. Sebastian Joseph and Prof. K O Francis were elected as the members of the senate.
22. Dr. K.J. Varghese, Department of English won the Professional Excellence Award instituted by Junior Chamber International

**2.4.6. Has the institution introduced evaluation of teachers by the students and external Peers? If yes, how is the evaluation used for improving the quality of the teaching-learning process.**

Yes. The students' assessment of teachers is an integral part of the curriculum. And this process is a usual practice every year for all UG and PG courses. Teachers engaging classes for all courses are assessed in a very systematic manner. Various elements of their work performance, like the mastery of the subject taught, efficiency in communicating the subject with students, punctuality and sincerity, involvement in research activities, approachability of the teacher etc. are considered for the framing the questionnaire which is also in tune with the guidelines of UGC. Using this questionnaire, at the end of the academic year, student feedback is obtained by each faculty for their self-appraisal. The Principal also collects the feedback from students on teacher performance using another questionnaire. In the Send off meetings, final year students are given opportunities to give oral feedback on performance of teachers and also to share their opinions about various facilities provided by the Institution. Apart from these, the parents are given an opportunity to express their assessment regarding infrastructural facilities of the College, and the teaching learning process, based on the impressions conveyed by their children. The teachers consider these comments very seriously



and take necessary steps to improve if required. Moreover, the Principal holds discussions with the teachers and apprises them of the feedback he received from the students and instructs them to take necessary corrective measures.

## **2.5 Evaluation Process and Reforms**

### **2.5.1 How does the institution ensure that the stakeholders of the institution especially students and faculty are aware of the evaluation process?**

The curriculum of each programme is prescribed by the affiliated University and in the respective syllabus, scheme of the evaluation process is clearly mentioned. The stakeholders of the Institution especially students are made aware of this scheme and its conduct through different ways.

- The Principal in his first address to the newcomers and their parents on the initiation day gives a broad outlook about the two level evaluation processes viz. internal evaluation conducted by the College and external evaluation conducted by the University.
- Copies of the syllabi are made available in the Departments and library for the reference of students and the faculty.
- Contents of the syllabus and the scheme of the two-level examination process are informed to students in the introductory class of each semester.
- The Class teachers are entrusted to orient students coming from higher secondary programmes and they help the students for the smooth transition to the University level. They inform the students regarding scheme of evaluation consisting of seminars, assignments, attendance, internal examination, etc.
- The academic calendar prepared by IQAC at the beginning of each semester includes the tentative dates for the internal examination and topics to be completed. Its copies are given to all Departments and are displayed in all class rooms which help them to plan their preparation for examinations. The tentative dates are also mentioned in the College Hand Book.
- The College Council meetings are conducted to finalize the dates of the internal examinations.
- The final dates of internal examinations are displayed on the common notice board and are also communicated through public announcement system.
- In the light of the dates of internal examinations, Heads of the Departments discuss the progress of the topics taught, with other members of the Department and ask them to engage extra classes to complete the percentage of topics stipulated.
- Students are informed of the modules to be prepared for the internal examinations and no study leave is assigned for this.
- The dates of external examinations are announced by the University. As soon as the notification to remit the examination fee and the schedule of examinations appear in the University Website or news papers, students are informed through the public announcement system
- The class teachers verify whether there are any defaulters in remitting examination fees and contact them personally.
- A study leave of five days is permitted before the commencement of the University examinations.

### **2.5.2 What are the major evaluation reforms of the university that the institution has adopted and what are the reforms initiated by the institution on its own?**





The major reform made by the University in the recent years was the introduction of the semester system. Following this, the entire pattern of evaluation was changed with the inclusion of internal assessment system, the grading system and grade points. In the former system, the full evaluation process was based on the performance of students in the University examination. The nominal marks awarded for the laboratory practical works for the science subjects was the only contribution of the internal evaluation. In the present evaluation process, the importance of internal evaluation has increased by giving weightage to attendance, assignments, seminars and internal examinations. This helps to evaluate the students in aspects other than the written examination system. The project and viva system introduced both in the UG and PG programmes also help the evaluation of students based on their creativity, communication skills and efficiency in various aspects of their studies.

Many of the teachers are University examiners or question paper setters in their subjects. Within the limited stipulation of the affiliation system, they put forward their views and suggestions as and when a reform is introduced. The Institution has taken the following initiatives for the effective execution of the evaluation process.

- The communication with the University related to evaluation process like submission of application form for appearing in examination, remitting of the examination fees, downloading of hall ticket and nominal roll from University Website, etc are changed to an online mode. The Institution has adapted itself to this reform by delegating the examination section in the Administration Office to do all these assignments.
- Examination Committees consisting of the Chief Superintendent and the Additional Chief Superintendent are entrusted to conduct the internal examinations and all University examinations.
- The PG internal examinations were earlier conducted by the respective Departments. From 2013 onwards those examinations were also brought under the responsibility of the Examination Committee.
- The College has decided to conduct the second internal examination in the model of University examination pattern so that students may get a complete knowhow of time management and question pattern.
- The percentage of topics to be included for internal examinations in all programmes was unified.
- The University in various forums has given recommendation to conduct online examination. Some of the teachers have come forward to conduct internal examination in online pattern and College provides the entire infrastructure required for this.
- Since it is not possible to conduct the internal examinations of all students simultaneously, special Timetable is arranged to get sufficient number of invigilators for the smooth conduct of the examinations.
- The retest opportunity in internal examination is restricted to medical/genuine grounds only so that students will attend the first exam seriously.
- The appearance in retest is only after getting consent letter from parents and expiatory measures are taken in this regard.

### **2.5.3 How does the institution ensure effective implementation of the evaluation reforms of the university and those initiated by the institution on its own?**

The University and the College have their own elaborate and perfect mechanism to effectively implement any examination reform. In the affiliation set up, an Institution is bound to follow the reforms implemented by the University in the evaluation process. At the College level, the Head of the Institution gives a general briefing of the reforms in the evaluation process



through staff meetings and instructs to ensure its implementation. The Examination Committee which conducts the evaluation process in a centrally arranged framework is entrusted to ensure implementation of the reforms initiated by the Institution and University.

- A faculty links the University and the College in evaluation matters and this faculty keeps track of all the developments in the University's evaluation process.
- The Examination Committee strictly monitors the execution of the academic calendar prepared by IQAC.
- Class teachers strictly monitor the completion of all components of internal evaluation process consisting of attendance, assignment submission, seminar presentation, etc by his/her students.
- By restricting the retest opportunity in internal examination to medical/genuine grounds, the attitude of students to ignore the internal examination is remarkably minimized.
- Before publishing the scores of internal evaluation prepared by the faculty, Departmental meetings are convened in which the Heads of the Departments ensure whether the reforms are effectively implemented.
- Students are also given an opportunity to ensure whether the reforms are effectively implemented by displaying the scores of internal evaluation on Departmental notice boards and addressing grievances if any.
- The IQAC makes sure that the internal evaluation process is completed in time by all the Departments.
- Any delay in the publication of the internal evaluation by any Department, is looked into by the Principal.
- Since all communications to University related to the conduct of external examination are made online by the Examination Section, any failure in the fulfillment of the same can be easily located.

**2.5.4 Provide details on the formative and summative evaluation approaches adopted to measure student achievement. Cite a few examples which have positively impacted the system.**

20-25 % of the maximum marks in each paper is considered for the internal evaluation and the remaining 75-80% marks for the annual/semester University examination. Internal evaluation includes the routine and regular assessment of students' development which is interpreted as formative evaluation. The College has devised different patterns of formative evaluation as follows

- Class room attendance and behaviour of students
- Evaluation of class room performance
- Participation in various curricular and co-curricular activities
- Progress in internal examinations and class tests, practical and oral tests
- Assessment of projects, seminars, assignments and field visits.

The summative evaluation is the overall evaluation of the students' progress at the University level, made at the end of the semester. It includes total assessment of the performance made throughout the semester. It is carried out by the University through an external written examination. The evaluation is done by the examiners appointed by the University. The summative evaluation also includes practical examinations, viva-voce, project work and weightage is given for the students' performance in NSS, NCC, arts and sports activities.



The formative and summative evaluation approaches adopted to measure students' achievements by the College have made the following positive impacts in the evaluation system.

- Teachers come to know their students better: their difficulties in learning, inability to express ideas, lack of proper time management, etc.
- Students can determine their academic status in comparison with their peers .
- Improves students' punctuality, regularity, and involvement in studies.
- Helps to improve the writing and presentation skills of students.
- Enables teachers to identify weak students and take remedial measures.
- Summative evaluation showcases student's total progress and performance, and helps to know how much of the content taught is retained by the student
- The summative assessment shows the strengths and weaknesses of students

#### **2.5.5. Detail on the significant improvements made in ensuring rigor and transparency in the internal assessment during the last four years and weightages assigned for the overall development of students (weightage for behavioural aspects, independent learning, communication skills etc.)**

The following steps are taken to ensure rigor and transparency in the conduct of internal assessment.

- The centrally arranged frame work to conduct the examinations has changed the very approach of students towards internal examination. They treat internal examinations as seriously as external examinations.
- Strict monitoring in submitting question papers at the Examination Office and its secrecy, publishing of mark lists and consolidated internal scores without delay are done by the Examination Committee.
- Invigilators are insisted to treat the invigilation of internal examination also as strictly as in the external examination.
- If any malpractice is found in the internal examinations, students are penalized through CSS like removing plastics from campus, cleaning the library and the class rooms, visiting orphanages etc.
- Limiting the chance for retest to medical/genuine causes has made students treat the internal examinations seriously.
- After evaluation of the internal examination papers, the assessed answer scripts are given to the students and the marks are put up on the Department notice board.
- Any discrepancy in the assessment can be brought to the notice of the faculty and rectified.
- The University insists to assign broadly 25% weightage of the total to each component of internal evaluation viz attendance, seminars, assignments, projects, etc
- Assessment of these components is strictly done by the teachers considering the content of the material presented, capacity to comprehend, and presentation skills.
- Scores obtained by the students are put up on the notice board for verification.
- The assessment of behavioural aspects is made through attendance, independent learning through assignment, and project while communication skills through the presentation of seminar and project report.
- The students are insisted to complete all components of internal evaluation on time.
- The performance report of the students in the internal evaluation is discussed with parents during the class teacher-parent interface.
- The class teacher keeps a record of each student and these records are uploaded to the University Website.



- The copy of the uploaded mark lists is published on the notice board for the final verification.

### **2.5.6 What are the graduates attributes specified by the college/ affiliating university? How does the college ensure the attainment of these by the students?**

The Graduate Attributes of the University are a wide-ranging knowledge which the student can acquire during his/her course of study, thereby leading to academic excellence and holistic development. The curriculum of the University has been prepared incorporating all the ingredients that will nurture to achieve this aim.

- The University envisages the development of language proficiency and communication skills by including English as common course of study for all UG programmes.
- Considering the relevance of vernacular languages in the course of study, a second language has been made mandatory.
- In order to achieve academic excellence in a specific discipline, a core programme and certain allied complementary programmes are assigned.

The graduate attributes of the College are specified in the Vision of the College. The College aims to mould an enlightened generation of 'finished products', who are professionally competent, spiritually mature, and humane in dealings, and ever open to new horizons of knowledge. The students who graduate from the College are integrated individuals with an enlightened view of life, imbued with social responsibility, who make definite contribution towards development of the Nation. In addition to acquiring academic excellence in the specific discipline, students are sent out as unique individuals exuding confidence, derived from their participation in various empowering programmes.

- *IT Vijnan* programme which creates a platform to improve the ICT skills of students.
- To make students effective communicators, a bridge course is appended to the curriculum-based English language course.
- Group activities enhance the ability of the students to work together towards a common goal and make them good team members and also increase their leadership capacities by fostering qualities like tolerance and humanity. Programmes are organized by a variety of Clubs like Adventure Club, Film Club, Debate Club etc. which augment critical thinking and logical reasoning. They also arouse the enthusiasm of students in adventure, creativity capacity to identify, analyze and propose solutions for specific problems.
- Responsible citizenship which creates an understanding of social and civic responsibilities and an urge to creatively intervene in the problems of society and nation with high standards of values, justice, truth, love and peace. The social interventions of students through activities of NSS, NCC, CSS and CSA enable them to acquire these skills.
- Value education classes are included to impart moral, ethical and spiritual values to the students. The Students Union as well as the various Clubs in the College conduct workshops and seminars which motivate people to engage in social work like blood donation camps, awareness campaigns on communicable diseases and legal rights.

### **2.5.7 What are the mechanisms for redressal of grievances with reference to evaluation both at the college and University level?**

All the internal evaluation grades are communicated to the students and are published in the Department notice board for verification. This system helps to redress the grievances of the students, if any, regarding the internal assessment grades. The College has a very systematic mechanism for redressing the grievances related to the internal evaluation,.

- The first step is to approach the teacher concerned with evaluation, if there are any grievances.



- The second step is at the Department level. If the student is not satisfied, he/she can approach the Head of the Department to redress the grievances. At the Department level a committee will be constituted with one or two teachers.
- At the third level, the issue will be forwarded to the Principal's chamber.
- A collective effort is made through College Redressal Committee which consists of the Principal as the Chairman and three senior teachers, a lady teacher and the office superintendent as members. The decisions of this committee shall be final.

Beyond this level the student can approach the University level committee if the grievance is not redressed at the College level and still prevails. It is worth mentioning at this point that no such issue of redressing grievances regarding internal evaluation has emerged so far in the College. Grievances related to University examinations generally require formal settlement at the University level as per provisions contained in the University statutes. Students can apply for revaluation if they are dissatisfied with the grades awarded.

## 2.6. Student performance and Learning Outcomes

### 2.6.1 Does the college have clearly stated learning outcomes? If 'yes' give details on how the students and staff are made aware of these?

Yes. The strategy of the College regarding learning outcomes is clearly reflected in its Vision and Mission statements. It believes that education is for the integral development of youth and it should be imbued with Indian ethos and enriched with universal values. The College shapes its products as citizens who will uphold the welfare of our nation through knowledge, skills and values imparted by it. The College aims to mould students to showcase an in-depth knowledge in their subject as well as upright strong social conscience. It looks at education not just as a ladder to build up a career for individual growth, but as a base for championing social justice. In addition to this, the Departments have clearly stated learning outcomes, specifying what learners should know and be able to do at the end of the programme. The crux of learning outcome is rooted in the four dimensions which ultimately support the goals and objectives of the College.

**Knowledge:** An in-depth proficiency in the core subject achieved through fundamental knowledge regarding core concepts, their analysis, synthesis and practical applications of the attained knowledge.

**Skills:** 'Finished Products' possessing good communication skills, computation skills application skills, problem solving skills, group work skills and self motivation to pursue further learning.

**Attitudes and Values:** Citizens of high standards which make them morally upright social beings, serving the nation with justice, love, truth and peace.

**Behaviour:** Good individuals endowed with empathy, free thinking and concern for fellow beings.

The learning outcome of the College and various Departments are communicated in the following ways

- It has been clearly stated both in the College Hand Book and website and has been displayed in key places of the campus
- All programmes organized in the College aim at this learning outcome directly or indirectly.
- Orientation talk given by the Principal to emphasize the importance of academic excellence in the initiation ceremony for first year students, parents and teachers.
- Periodical value education classes.
- Supporting extension lectures and activities.
- Career orientation talks arranged for the benefit of the members of staff.



- In the interactions with newly appointed teachers by the Principal.
- The Heads of the Departments will sensitize the students on the day of commencement of the programmes.
- The class teachers give all necessary information about the various courses during the interface with their wards.

**2.6.2 Enumerate on how the institution monitors and communicates the progress and performance of students through the duration of the course/programme? Provide an analysis of the students results/achievements (Programme/course wise for last four years) and explain the differences if any and patterns of achievement across the programmes/courses offered**

The College has a very comprehensive system in monitoring the progress and performance of students and results of examinations are communicated in the following ways.

- The consolidated mark list of internal valuation is displayed in the concerned class room or the Department.
- The corrected answer scripts are returned to student for verification
- The Departments maintains a record of the performance of students in the College examinations and University examinations
- Monthly or bimonthly attendance records are displayed to communicate their percentage of absence. The Class teachers inform the parents if their wards are regularly absent.
- Class teachers play a prime role in communicating the progress and performance of the students concerned.
- Parent teacher meeting is arranged in the College at the end of every semester. The class teachers keep an updated record of the academic activities of the students including performance in examination, attendance, duty leave details furnished by the students. This meet enables effective two-way interaction between the teachers and parents about the performance of the students and generates a sense of responsibility and accountability in students and parents. It has also been advantageous for the teachers as the most measurable feedback on the effectiveness of the teaching-learning-evaluation process. (Programme/course wise result and ranks secured during last four years are given in 5.2.2)

**Analysis of Results**

- Consistent percentage of pass every year, however a fluctuation of 10 to 15 percentage is observed.
- Good demand ratio for various programmes due to the good tradition of the College
- The reason for fluctuation is the transition from year wise pattern to semester pattern as well as drastic changes in syllabi and scheme of evaluation.
- Interruption of teaching days due to the untimely conduct of external examination schedule
- Drop out percentage is negligible
- A harmonious academic atmosphere in the campus
- Inculcation of research culture both among staff and students.

**2.6.3 How are the teaching, learning and assessment strategies of the institution structured to facilitate the achievement of the intended learning outcomes?**

The following are the strategies of the Institution to facilitate achievement of the intended learning outcome.

- Provide very efficient action plan for the present and future to make the teaching learning and assessment outcome fruitful.



- Meticulous planning in the recruitment of the faculty who will pioneer the teaching learning outcomes.
- Provide sufficient infrastructure for the effective implementation of the curriculum prescribed by the University.
- Efficient monitoring of academic transaction at different levels like the Management, the Principal and the Heads of Departments.
- Across the semesters the teaching learning activity is strictly structured according to the academic calendar prepared by IQAC.
- The Timetable committee provides the weekly working hours in a clearly defined common structure and Departments prepare individual Timetable in tune with the common structure.
- Individual teacher prepares his/her teaching plan of the portions assigned to him/her in tune with the schedule given by the IQAC academic calendar.
- The progress and adherence to the teaching plan are monitored in meetings convened by the Heads of the Departments.
- The learning outcome is assessed at different levels.
- Efficient centrally arranged examination system to conduct the evaluation process.
- The Examination Committees take care of the conduct of the internal examinations as well as the external examinations scheduled by the University.
- In addition to internal exams, the faculty is encouraged to conduct quizzes, class tests, group discussions etc to assess student learning.
- Strict monitoring of students' attendance.
- Periodical interfaces between parents and class teachers to discuss their ward's academic progress.
- Measures like remedial and additional coaching for slow learners, psychological counselling for students who are in need of the same.
- The learning outcome is assessed at different levels.
- Analysis of success rate in University examination in staff meetings .
- University examination success rates are compared with the Institutional achievements in the following aspects: the pass percentage and University pass percentage.
- The University results of each programme are analyzed and benchmarks are fixed for further improvement.

#### **2.6.4 What are the measures/initiatives taken up by the institution to enhance the social and economic relevance (quality jobs, entrepreneurship, innovation and research aptitude) of the courses offered?**

In an affiliated status the flexibility to renovate the curriculum of a programme is very limited compared to that of an autonomous status. However, the College gives due importance to enhance the social and economic relevance of the courses offered by it as well as to increase job opportunities and entrepreneurship. The following initiatives are taken in this regard.

- The curriculum is supplemented with need based Add-on courses which enhance functional expertise of the students and make them employable. Almost all UG programmes are coupled with one of the UGC sponsored Add-on programmes.
- Globally emerging green energy technologies are in the forefront for catering to the various needs of the human development. Realizing this social relevance the College started the UGC sponsored innovative PG Diploma programme in Green Energy and Sustainable Technologies.



- Natural disaster caused by changing climatic conditions hampers the normal living and livelihood of the society. Scientific understanding of such phenomenon would help to take prior measures for planning and mitigation strategies to minimize the loss of life and property. Realizing these social needs the College has been conducting the PG Diploma in Disaster Management course for past five years.
- In order to improve employability of students, the Institution has initiated various enrichment programmes like *IT Vijnan* classes, personality development programmes, communication skills classes, soft skill development programmes etc. so that students become technology savvy to avail of the benefit of technology-driven learning.
- Students are given opportunities of ‘lab to land’, to understand with application in live socio economic situations of the knowledge they get from class room, by conducting field trips, study tours and industry visits.
- In order to enhance social and economic relevance, all the PG courses have research as an extension. All the PG courses have research projects, which prepare students to undertake research as a career in future.
- The Departments encourage students to take up PG projects having socio-economic relevance and encourage discussion on findings.
- They are also motivated to present their research findings in national and international conferences and get the appreciation of the experts in that topic.
- Some Departments also organize visits to higher level learning institutions to understand the greater scope of the courses offered by them.

### **2.6.5 How does the institution collect and analyze data on student learning outcomes and use it for planning and overcoming barriers of learning?**

The method of analysis of learning outcome is mainly based upon the following components. The main source of this data base is the concerned Department of the College. The data required for this is collected programme wise by the Departments concerned.

- A direct data that indicates the outcome of teaching and learning is the performance of students in internal and external examinations.
- A thorough evaluation of the seminars, practical tests, project works and assignments of the students is carried out to measure skill outcome.
- Progression to higher education opportunities is an indicator to gauge the learning outcome achieved from the College.
- Success rate in placement drives is the result of technology-driven learning.
- The oral feedback given by the students in exit meetings conducted at the completion of a programme.
- The personal interaction of the class teachers with their students.

At the first level, a Department wise analysis of the data is made. The barriers of learning are identified and steps are taken to overcome it through support programmes. Slow learners are provided with remedial coaching and extra helps in tutorials. From 2014-15 onwards the College offers Kerala State Higher Education Department sponsored project viz Student Support Programme for the betterment of weak performers. Another project viz Walk With a Scholar, funded by the same agency, is offered for improving the employability.

A deeper analysis of the data is made at the second level in the faculty meeting under the leadership of the Principal. Steps are taken to rectify the defects/drawbacks before planning the activities of the next semester.





### **2.6.6 How does the institution monitor and ensure the achievement of learning outcomes?**

- The College has an Academic Monitoring Committee to monitor and ensure the achievement of the learning outcome.
- Out of the four dimensions of learning outcomes defined by the College, knowledge outcomes are rated by the internal exams conducted by the College and the external exams conducted by the University.
- Skill outcomes are rated by the other components of internal assessment like seminar presentation, assignment, practical exams and dissertation work.
- The class teachers mentor each student personally and those with learning difficulties are given special coaching and remedial classes.
- Progress of the students is personally monitored by the class teacher and every effort is taken to uplift the slow performers by giving special coaching and remedial classes
- Truants among students and those who fail to live up to the standards set by the College, are given counselling at the College Counselling Centre.
- The College also organizes class teachers' meetings with parents, in which the learning outcomes of their children are discussed and special care at home is suggested, if required. Moreover, the class teachers discuss the details of student learning outcomes in the Department meetings.
- The College also conducts value education classes regularly to inculcate human and social values in students' minds and opportunities are created to assess students' outlook on ethical issues.

### **2.6.7 Does the institution and individual teachers use assessment/ evaluation outcomes as an indicator for evaluating student performance, achievement of learning objectives and planning? If 'yes' provide details on the process and cite a few examples.**

Yes. Both the Institution and individual teachers use assessment/evaluation outcomes as an indicator for evaluation of student performance. Apart from various evaluation processes prescribed in the curriculum, teachers also follow power point presentations, debates, oral tests, etc. The evaluation processes adopted by the Departments are designed in such a way that it is in accordance with the learning outcome to be acquired by the students at the end of the programme. In order to acquaint students with University examinations, the second internal examination is always conducted in the University examination pattern.

- The teachers keep record of the progress and meticulously trace the fluctuations in the performance of the students. It enables teachers to take necessary steps to improve students' performance.
- Evaluation is an indicator, not only of the students' achievements, but also of the achievement learning objectives. The good performance in seminar presentations indicates that they have acquired the skill of communication, the required level of knowledge and involvement in subject.
- The students' performance is discussed regularly in staff meetings. The Departments with good academic results are congratulated. The Principal instructs the Departments to take necessary remedial steps to improve, in case their performance is not upto the expectation.





Dr. K. Radhakrishnan, Chairman, ISRO  
Alumnus



Dr. Anuradha S. Prakash, Scientist, ISRO  
Alumnus



Hon. Vice Chancellor, Dr. M Abdul Salam



Shri. Gigi Thomson IAS, Chief Secretary



P. K. Abdul Rab, Hon. Education Minister



Prof. Tony Morris, Sports Psychologist,  
Victoria University, Australia





### CRITERION III RESEARCH, CONSULTANCY AND EXTENSION

The quality of higher education has become an important issue in the matter of employability. As research is one of the basic expectations of higher education in the country, the Research Committee of the College makes proper use of the work potentials of the students and faculty by inculcating in them a research sensibility. The research activities promote research thinking, analyzing and evaluating, and generate new knowledge. Deviating from the conventional Chalk and Talk methodology, the students are sensitized to new modes of research-oriented self study.

#### **Promotion of Research**

##### **3.1.1 Does the institution have recognized research centers of the affiliating University or any other agency/ organization?**

Yes. Six of the Departments are approved as Research Centers by the University of Calicut.

No	Name of Department	Year of Approval
1	Zoology	May 1973
2	Chemistry	Dec. 1975
3	Physics	Oct. 2010
4	Geology & Environmental Sciences	Oct. 2010
5	History	Dec. 2011
6	Economics	Dec. 2014

##### **3.1.2 Does the institution have a research committee to monitor and address the issues of research? If so, what is its composition? Mention a few recommendations made by the committee for implementation and their impact.**

Yes, The College has a Research Committee consisting of the faculty who are recognized research guides of the University of Calicut and the home Departments as their Research Centers. Dr. Balu T. Kuzhivelil is the coordinator of the Research Committee. Major recommendations made/actions taken by the Committee are the following.

- Recommended to elevate more Departments as approved Research Centers of the University.
- Decided to admit research students twice a year.
- Timely advertisement of research related news and availability of Ph D vacancies through College Website and popular newspapers.
- Evaluation of the progress of research scholars (Every 6 months).
- Constituting doctoral committees in connection with submission of synopsis and thesis.
- Encouraged the faculty to get approval as research guides from various universities.
- Submitted proposal for sanctioning the FIST grant offered by DST.
- Motivated the faculty to submit proposals for research grant from funding agencies.
- Assisted Departments to apply for financial support for conducting international and national seminars/conferences and workshops.
- Inspired the faculty to present research papers in international and national seminars and also to publish their research works in refereed journals.
- Encouraged PG students to undertake project works of social relevance.
- Addressed the issues/needs related to the implementation of the research projects of the faculty & students.



- Recommended to institute financial assistance CCRF @Rs. 50,000/- per year to full time research scholars of Christ College who are not recipients of any other fellowship.
- All the PG Departments are encouraged to conduct project presentation contests and to publish articles in the Christ College research journal entitled Research Review every year, including the outstanding projects' reports of the PG students.
- In order to inculcate research aspiration among PG students organized research orientation talks by eminent resource persons.

➤ **Impact of recommendations**

Presently the College has *six research centers* with seventeen research guides and sixty one research candidates. Moreover, some members of the faculty are research guides at centers of other institutions also. The College has been sanctioned FIST grant offered by the DST. Dr. Sudhikumar A. V. was awarded the Young Scientist Award instituted by the DST and also sanctioned a project entitled Diversity and Bioecology of Spiders in Wayanad Wildlife Sanctuary of Western Ghats, Kerala with an outlay of Rs. 21 lakhs. Moreover, the guidance of Research Committee resulted in a remarkable increase in the number of projects undertaken. Departments of History and Geology organized one international conference each and other Departments organized national level, state level seminars and self-funded talks to explore the advanced trends and research opportunities in each discipline. During XI Plan period, six of the faculty availed the FDP scheme of UGC to complete the research leading to Ph. D. and twelve of the faculty were awarded Ph. D. During the last four years 175 publications in national and international peer reviewed journals were appeared. The publications in the proceedings of national and international conferences are extra. Many of the faculty and PG students have presented research papers in national and international seminars.

### **3.1.3 What are the measures taken by the institution to facilitate smooth progress and implementation of research schemes/projects?**

The following measures are taken to facilitate progress and implementation of research schemes effectively.

- The Principal alerts the members of the faculty periodically in staff meetings for availing financial support to take up major and minor research projects. The time for submitting the proposals is intimated through notice board.
- Research Committee and IQAC assist the faculty in preparing the proposals to funding agencies; give suggestions for improvement and the proposals are forwarded to appropriate funding agencies.
- The Institution permits the faculty and students to utilize all its available infrastructural facilities for smooth conduct of the project.
- Teachers who undertake research projects are also encouraged to get approved as research guides and allowed to take up research scholars for active research.
- **Freedom to the principal investigator:** For the smooth implementation of the projects/ schemes full autonomy is given to the project investigators. The principal investigator discusses matters related to the project with the Principal and the Head of the Department concerned and receives suggestions.
- **Easy process to release the resources:** The project grant credited to the Principal's account is released based on request from the investigators. In case of delay in release of approved grant from the funding agency, the Management extends financial support (loan without interest) to the investigators, to ensure uninterrupted progress of the project.
- **Adequate infrastructure:** The Institution provides separate rooms for laboratory for teachers who are sanctioned major research projects. The amounts sanctioned by the



funding agency towards overhead expenses are fully utilized for modifying/maintaining the lab and equipment.

- **Relaxation in work arrangement/duty leave etc. to teachers:** Internal work arrangement and special leave are permitted to do field work outside the campus and for visiting libraries/laboratories. The supervision of the examinations is allotted to research scholars under the concerned research guide when he/she is out of the campus.
- **Support in terms of technology and information needs:** The Research Committee extends full support for preparing research proposals, maintaining and auditing of accounts etc. Information regarding various funding agencies is available with the Committee for reference.
- Facilitate timely auditing and submission of utilization certificate to the funding authorities: Support from the Office staff is rendered to the investigator to maintain and audit the accounts.
- The Research Committee ensures that the research findings are getting published in reputed journals.
- The Management extends financial support every year for conducting seminars and conferences and also the seed money for publishing the Journal Research Review.
- The College continues the good tradition of appointing members of the faculty with excellent track records in research and it extends full support to pursue research to acquire higher qualifications.
- The Management encourages members of the faculty to avail of the PTAC fund offered by the UGC for presenting research papers in national and international journals.

### 3.1.4 What are the efforts made by the institution in developing scientific temper and research culture and aptitude among students?

The College takes elaborate efforts to instill scientific temper and research culture among students. Every year Research Orientation Programmes are arranged for PG students by IQAC. The present curriculum includes research projects in both UG and PG programmes. Adequate facilities in the libraries and laboratories are provided to the students. The Institution encourages students to participate in and organize various programmes to develop a scientific culture within the Institution. Some of the activities are listed below

- **Systematic implementation of UG and PG projects:** Advanced and relevant topics are selected for projects and are regularly monitored by the guide in-charge.
- **Project Presentation Contest:** Every year, each Department organizes a presentation contest for PG students on their project works. Cash awards and certificates are issued for the best presentations.
- **Open-house Programmes, Exhibitions and Intercollegiate presentation contests:** Department of Physics organizes Open house programme to demonstrate nearly 30 experiments to higher secondary students of neighboring schools. Around 200 students visit the Department every year. Intercollegiate Presentation Contest for degree students is a regular feature of all the PG Departments. The Departments of Zoology and Geology organize Museum Exhibition to observe and experience animal diversity and various geological specimens. An exhibition on Cultural Heritage of Kerala was organized by the Department of History in 2013.
- **Some places frequently visited by students for furthering scientific and research temper.**
  - **Mathematics:** Centre for Mathematical Science, CUSAT, NIT Calicut.
  - **Chemistry:** ICT Hyderabad, FCBS Trivandrum.



- **Physics:** Kakkad Hydroelectric Project, CMET Thrissur, Physics and Photonics Lab at CUSAT, Physics Department Lab at MG University, C-MET.
- **Zoology:** Central Marine Fishery Research Institute, Central Institute of Fisheries Technology, National Institute of Oceanography, Marine Products Export Development Authority, Mysore Zoo, Wayanad Wildlife Sanctuary.
- **Geology:** Geological Survey of India, Thiruvananthapuram; Centre for Earth Science Studies, Thiruvananthapuram; Gemmology lab, Thiruvananthapuram, Ariyellor Copper mines, Chithradurga fields, Manglore Iron ore mines.
- **History:** University of Calicut Library, Appan Thampuran Library Thrissur, Town Hall Library Thrissur, Sahithya Academy Thrissur, State Archive Kochi, SreeS ankara University, Kalady.
- **Botany:** Study tour to ecologically fragile areas like Vazhachal, Sacred Groves, Parambikulam Forest, Thikkodi & Malabar Botanical Garden, University of Calicut Botanical Garden.
- **Economics:** Dr. John Mathai Centre Library, Thrissur, KILA Thrissur, Kerala Agricultural University, CUSAT, Kerala Research Institute.
- **Commerce:** Kerala Solvent Extractions Irinjalakuda, Kerala Feeds Kallettumkara, KPL Oil Mills Irinjalakuda, Cooperative Banks, KLF Oil Mills, Irinjalakuda, South Indian Bank, Thrissur, Federal Bank Aluva.
- **Participation in research seminars organized by neighbouring colleges:** The students participate in national /international seminars /workshops organized by various colleges and national level higher education centers like NIIST, NIT, CMSS.
- Students are encouraged to present research papers in national and international seminars organized in other colleges. Mr. Justin Thomas, MA Economics student won the award for the Best Paper Presenter in the international conference organized by Christ University, Bangaluru in 2012.

The following table gives the number of student paper presentations in national and international level conferences during 2010-2014

Year	2010	2011	2012	2013	2014
Number of presentations	12	10	11	17	13

- Departments organize various academic meetings to give exposure to students regarding advanced research trends (Details of international/national/State level seminars organized by the College are given in 3.7.4).
- Interaction with Scientists and Researchers: OSA members and other eminent personalities in the field of research are invited as resource persons of conferences and seminars and opportunities are provided for interaction with the students to discuss emerging research areas.
- Part time research students are encouraged to take up funded projects related to their research study. Three part time research students of Department of Physics are working on UGC sponsored minor projects (Rs. 5,50,000/-) at their parent institutions.
- PG students are accompanied by the faculty in study tours and assisted by them in the collection of materials for project works.
- Considering the recommendation of the Research Committee the College has instituted CCRF for full time research scholars, who are not recipients of any other fellowship.

**3.1.5 Give details of the faculty involvement in active research (guiding student research, leading research projects, engaged in individual/collaborative research activity etc.)**

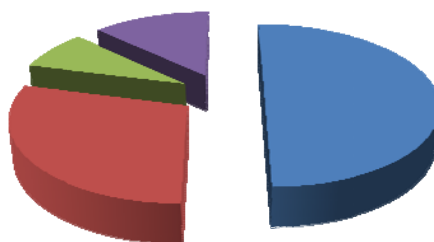




More than fifty percentage of the members of the faculty have Ph. D degree and the Management encourages them to pursue their post-doctoral research activities. The faculty are actively involved in undertaking major/minor projects, guiding Ph. D. students of the College and students of other research centers (MG University, Bharathiyar University, Kalpakam University, Kannur University etc). They also engaged in undertaking PG, M Phil and INSPIRE projects. In the present curriculum of PG and UG programmes, project works are mandatory. Therefore, almost all the faculty are engaged in guiding them. The details of research background of the members of the faculty are shown in the following chart.

### Research background of faculty

■ With Ph.D. ■ Doing Ph.D./Thesis submitted ■ With M.Phil. Only ■ Others



There is a remarkable increase in the number of Research Guides during the previous years. The College also invites teachers of other institutions to take guideship in its various Research Centers. Some of the teachers are research guides of research centers of other institutions. Each Department is requested to prepare the requirements and future plans for the progress of the research activities so as to take necessary steps for implementation.

**Details of research guides for Ph D programmes are listed below.**

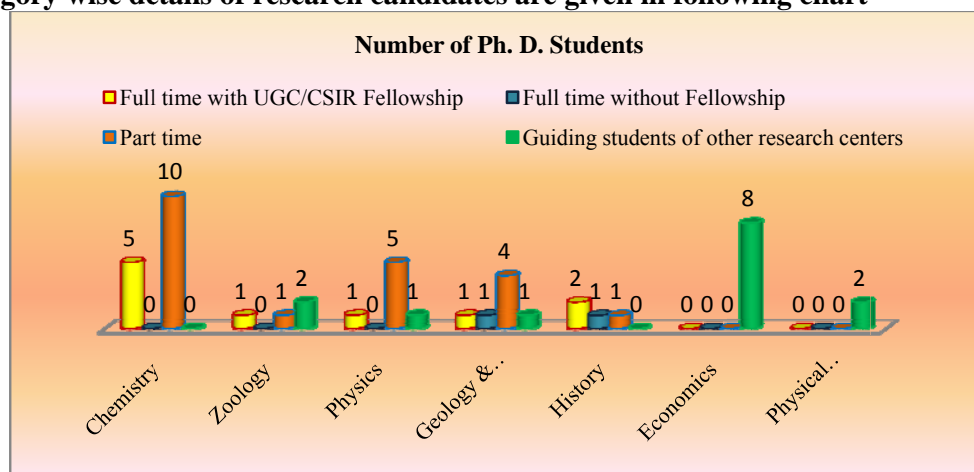
Sl. No.	Department	Name of the Faculty	University	No. of Ph. D. Students
1.	Zoology	Dr. Balu T. Kuzhivelil	University of Calicut, Bharathiyar University	3
2.		Dr. Sudhikumar A. V.	University of Calicut	1
3.			Bharathiyar University	1
4.		Dr. Leyon Varghese	University of Calicut	---
5.		Dr. John Thomas K.	University of Calicut	3
6.	Chemistry	Dr. Aneesh E. M. St. Joseph's College, Irinjalakuda	University of Calicut	---
7.		Dr. V. D. John	University of Calicut	7
8.		Dr. Mathew Paul Ukken	University of Calicut, Bharathiyar University	4
9.		Dr. V. T. Joy	University of Calicut	1
10.		Dr. TittoVarughese	Karppagam University, Coimbatore	4
		Dr. V.P. Joseph	University of Calicut, MG University Bharathiyar University	5 1 ---



11.	Physics	Dr. P. L. Anto St. Thomas College, Thrissur	University of Calicut	1
12.		Dr. M. Laksmi Mercy College, Palakkad	University of Calicut	4
13.	Geology & Envi. Science	Dr. A.V. George	University of Calicut MG University	2 2
14.		Dr. Sreekumar S.	University of Calicut MG University	3 ----
15.	History	Dr. K. Chandran	University of Calicut	1
16.		Dr. K.T Thomas	University of Calicut	6
17.	Economics	Dr. K.A Stephenson	MG University	2
18.		Dr. E.M Thomas	MG University	6
19.	Botany	Dr. Tessy Paul P	University of Calicut	----
20.	Physical Education	Dr. B.P. Aravinda	Karppagam University	----
		Dr. Vivekanandan	University of Calicut	3
			Karppagam University	-----
		Bharathiyar University		1
<b>Total</b>				<b>61</b>

Details of Ph. D. Produced during 2010-'14	
Home Departments as Research Centers	No. of Ph. D.
Zoology	4
Chemistry	1
Geology	3
Research Centers in Other Institutions	No. of Ph. D.
Economics	3
<b>No. of Thesis submitted</b>	<b>1</b>

- Category wise details of research candidates are given in following chart



#### List of projects completed and ongoing during the last four years

Major Projects				
Sl. No	Principal Investigator Project Title	Funding Details	Durati on	Curren t Status
	Dr. John Thomas - Environmental control of	FA:UGC	Three	



1	Spatial and Social learning in fish: Role of the neural circuitry of <i>Hipocampal pallium</i> and <i>Amygdalar pallium</i>	FS: 7,82,600 FR: 7,82,600	years	C
2	Dr. John Thomas - Impacts of land use changes on the ecology of <i>Kol</i> wetlands (part of Vembanad <i>Kol</i> )- A Ramsar Site	FA:MOEF FS: 7,91,430 FR: 7,91,430	Three years	C
3	Dr. John Thomas - Development of strategies for seed production and enhancement of larval survival in <i>Ompok malabaricus</i> and <i>O. bimaculatus</i>	FA:KSCSTE FS: 4,27,350 FR: 4,27,350	Three years	C
4	Dr. George A.V. - Predictive modeling for landslide occurring in the Western Ghats region of Kerala based on field studies and critical evaluation of land satellite imageries and GIS applications	FA:P&EA FS: 3,30,000 FR: 3,30,000	Three years	C
5	Dr. George A.V. - Geo-environmental appraisal and hydrological scenario of a typical highland region of Western Ghats, and its impact on Mullaperiyar and Idukki and other dams using GIS imageries and GIS modelling	FA:P&EA FS: 9,00,000 FR: 9,00,000	Three years	C
6	Dr. George A.V. - Environmental status of the Periyar River drainage system of the Western Ghats region of Kerala	FA:P&EA FS: 13,00,000 FR: 13,00,000	Three years	C
7	Dr. Sreekumar S.- Hazard and risk analysis of slide prone areas in Kerala Western Ghats	FA:KSCSTE FS: 6,36,600 FR: 6,36,600	Three years	C
8	Dr. Sreekumar S.- Change in Land use practices and its impact on land and water along the downstream segment of Chalakudy river basin	FA:EMA FS: 10,60,000 FR: 10,60,000	Three years	C
9	Dr. Sreekumar S. - Predicative and preventive modelling for landslides in Kuttiyadi river	FA:KSCSTE FS: 13,81,600 FR: 13,81,600	Three years	C
10	Dr. V. T. Joy- Development of fuel stacks for automobile applications	FA:OCMT FS: 3,00,000 FR: 3,00,000	Two years	C
11	Dr. Balu T. Kuzhivelil- Metallothionein Gene, a molecular biomarker for heavy metal pollution and management	FA:MOEF FS: 17,88,306 FR: 17,88,306	Three years	C
12	Dr. Joseph V. P. - Study and development of liquid dielectric filled tunable Metamaterials	FA:KSCSTE FS: 8,72,300 FR: 8,72,300	Three years	C
13	Dr. Sreekumar S.- Long term mitigation strategies for landslide in Hill ranges of Kozhikode District	FA:UGC FS: 9,10,800 FR:5,46,800	Three years	P
14	Dr. Leyon Varghese - Bioremediation potentials of a dugwell grown herb <i>Lagendra toxicaria</i> – a suspected hyper accumulator	FA:UGC FS: 11,74,300 FR:7,50,000	Three years	P
	Dr. Sudhikumar A. V. - Diversity and	FA:DST	Three	



15	bioecology of spiders in Wayanad wildlife sanctuary of western Ghats, Kerala	FS:21,00,000 FR:10,00,000	years	P
16	Dr. Sudhikumar A. V. - Bioecology of spiders in the paddy field of Muriyad Kol wet land	FA:KSCSTE FS: 11,35,600 FR:5,00,000	Three years	P
17	Dr. Linto Alappat - Establish Mid-Late Holocene sea level the coasts of South India: an approach using facies analysis and OSL, 14C chronology of coastal sediments.	FA: DST FS: 11,40,000 FR:4,00,000	Three Years	P
<b>Minor Projects</b>				
Sl. No	Principal Investigator Project Title	Funding Details	Durati on	Curren t Status
1	Antony K. J.- Status of Manimala River with special reference to water analysis and environmental degradation due to pilgrimage tourism	FA:UGC FS: 60,000 FR: 60,000	Two years	C
2	Babu K. J. - Environmental Impact of mining and quarrying in Chalakudy River basin	FA:UGC FS: 75,000 FR: 75,000	Two years	C
3	Dr. John V. D. - Antibacterial and antitumor studies of metal complexes of 1,7-diaryl heptanoids and 1,5-diaryl heptanoids	FA:UGC FS: 55,000 FR: 55,000	Two years	C
4	Dr. Joseph V. P. - Development of data acquisition system for microwave scattering measurements	FA:UGC FS: 58,000 FR: 58,000	Two years	C
5	Dr. Davis Antony M.- Multivariate Mittag-Lefflef Distribution	FA:UGC FS: 70,000 FR: 70,000	Two years	C
6	Dr. Jacob George - Role of goal setting in attaining and maintaining fitness through aerobic training	FA:UGC FS: 1,20,000 FR: 1,20,000	Two years	C
7	E. J. Vincent - Ex-situ conservation of medicinal plants in College campus and listing of medicinal plants in Irinjalakuda municipality	FA:UGC FS: 60,000 FR: 60,000	Two years	C
8	Dr. T. Vivekananda- Effects of Multiview video modeling on motor skill acquisition and performance among mentally challenged children	FA:UGC FS: 75000 FR: 75000	Two years	C
9	Dr. C. J. Unni - Employment and income generation through rural industrialization	FA:UGC FS: 100000 FR: 100000	Two years	C
10	P. A. Varghese - A study of incentives for small scale industries in Thrissur District	FA:UGC FS: 85000 FR: 85000	Two years	C
11	Dr. Mathew Paul Ukken - Biochemical study of curcumin related 5 Aryl-1Phenyl-4Pentene-1.3Dones and their metal complexes	FA:UGC FS: 1,00,000 FR: 1,00,000	Two years	C



12	Dr. Mathew Paul Ukken - Synthesis, characterization and biological studies curcumin related 6-aryl-5-hexane -2-diones	FA:UGC FS:50,000 FR:50,000	Two years	C
13	Dr. John V. D. - Applications of Diaoz compounds and their metal chelates	FA:UGC FS: 1,45,000 FR: 1,45,000	Two years	C
14	Shri. Jagan Sebastian George- Internet Usage, Accessibility and its impact on academic performance: A study of undergraduate college students in Thrissur District of Kerala	FA:UGC FS:1,00,000 FR:1,00,000	Two years	C
15	Dr. B. P. Aravinda - Training implications of selected physical variables for the performance of pole vault performance	FA:UGC FS: 1,50,000 FR: 1,50,000	Two years	C
16	Shri. Tom Jacob - A Study on Foreign portfolio investment and economic growth of India during the post liberalization era	FA:UGC FS: 80,000 FR: 80,000	Two years	C
17	Shri. Pious Joseph K. - Geo Physical Investigations of Aline Intrusion into Fresh Water Coastal Acquifers of Azhikkode-Perinjanam Coast of Central Kerala	FA:UGC FS: 1,22,000 FR: 1,22,000	Two years	C
18	Dr. Vineetha E. - A study based on brotherly relation as depicted by Valmiki in his Ramayana	FA:UGC FS: 1,00,000 FR: 1,00,000	Two years	C
19	Dr. Sudhikumar A. V. Diversity of spiders in Christ College campus.	FA:UGC FS:50,000 FR:30,000	Two years	C
20	Dr. Sudhikumar A. V. - Web building behaviour in spiders - An evolutionary study based on spinneret morphology	FA:KSCSTE FS:10,000 FR: Nil	One year	C
21	Dr. Sudhikumar A. V. - Preliminary study on identification of spiders using mitochondrial DNA	FA:KSCSTE FS:10,000 FR: Nil	One year	C
22	Dr. Sudhikumar A. V. - Study of synanthropic spiders in different geographic locations of Kerala	FA:KSCSTE FS:10,000 FR: Nil	One year	C
23	Dr. Sudhikumar A. V. - Diversity of spiders in different agroecosystems	FA:KSCSTE FS:10,000 FR: Nil	One year	C
24	Dr. Sudhikumar A. V. Diversity of spiders in Athirapally forest	FA:KSCSTE FS:10,000 FR: Nil	One year	C
25	Dr. TessaPaul- Studies on the ecology, biodiversity and systematic assessment of fresh water phytoplankton and macrophytes in the perennial ponds of thrissur District , Kerala	FA:UGC FS: 1,70,000 FR: 1,40,000	Two years	P
26	Dr. TittoVarughese - Comparative quality characterization and chemical profiling of oil constituents present in Nutmeg ( <i>Myristica fragrans</i> ) varieties in various locations in	FA:UGC FS:2,00,000 FR: 1,00,000	Two years	P



	central Kerala			
27	Dr. V D John, Applications of Diazo compounds and their metal chelates.	FA:UGC FS: 1,60,000 FR: 90,000	Two years	P
28	K.Y. Shaju, 100 <sup>th</sup> Year of Bohr's atom model-year long celebration throughout Kerala	FA: KSCSTE FS: 1,95,000 FR: 95,000	Two years	P
29	Franco T. Francis, Gender inequality in nutritious status: A case of children from Tribals and Fisher folks in Kerala	FA:UGC FS: 1,00,000 FR: Nil	Two years	P
30	Chitra Sebastian, Anti-realist Techniques Employed in the Japanese Noh Theatre.	FA:UGC FS: 1,00,000 FR: Nil	Two years	P

#FA: Funding Agency, FS: Fund Sanctioned, Fund Received, C: Completed, P: Progress

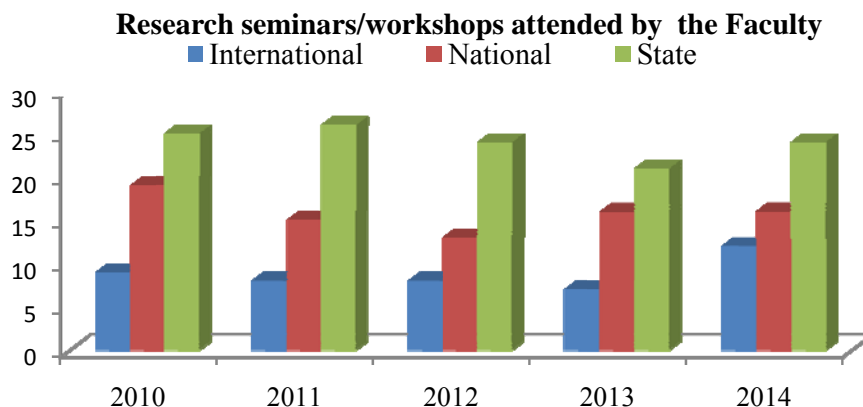
During the last four years the College has completed 12 major projects and 24 minor projects with a total outlay Rs. 1,22,75,186/-. Currently 11 projects are ongoing with an outlay Rs. 71,85,700/- and sanction of six minor and two major projects are pending.

- **Collaborative projects undertaken along with the collaborating institutes:**

Project	Investigator from Christ College	Collaborating Institute /investigator
Study and development of liquid dielectric filled tunable Metamaterials	Dr. V.P. Joseph, Department of Physics	Dr. Joe Jacob, Newman College,
Metallothineis Gene, a molecular biomarker for heavy metal pollution and management	Dr. Balu T. Kuzhivelil, Department of Zoology	Dr. K.V. Lazar Central University of Kerala
Valedictory programme of centenary celebration of Bohr's atom model	Department of Physics (APT)	APT, Kerala, EKN Research Centre
Palaeogeography of Pattanam Archeological Excavation Site.	Dr. Linto Alappat Department of Geology	Kerala Council for Historical Research
Training programmes to forest personnel, for field identification and collection of spiders.	Dr. Sudhikumar A. V. Department of Zoology	Kerala Forest Department

- **Participation of the faculty in various research related seminars:**

The faculty have attended in 243 seminars/workshops during the period 2010-2014.

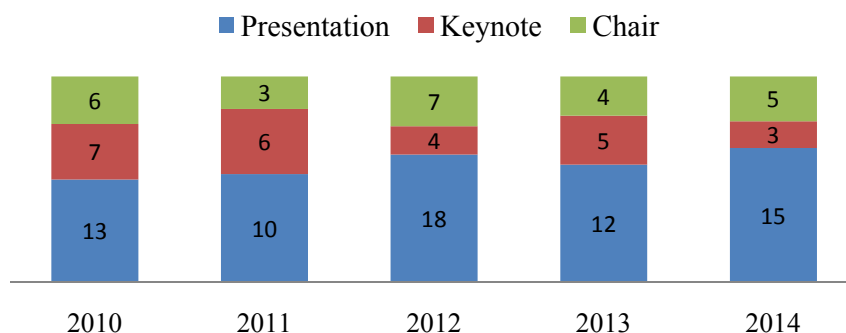




- **Presentation of research papers in various seminars by the faculty:**

Teachers are actively involved in research activities like paper/poster presentation, keynote speaker/resource person, chair person/judge in presentations, etc. in various national and international events. The details are pictured below.

#### Teachers as resource persons



- **Some of the papers/posters presented in international/national conferences by the faculty outside Kerala and abroad are listed below.**

1. Dr. K J Varghese was a resource person in the workshop on *Digital Language Lab Software* at the international seminar in Malaysia conducted by University Technology, **Mara, Malaysia**, in 2010.
2. Dr. K J Varghese presented a paper on *Teaching Written Communication Skills through E Forum Activities* at the International ASIACALL Conference in Bangkok, **Thailand** organized by ASIACALL in 2012.
3. Dr. K J Varghese presented a paper on *Teaching of English as Lingua Franca through Information Communication Technology* in the multi lingual Indian Context at the fourth international conference conducted by Hong Kong Institute of Education at **Hong Kong** in 2011.
4. Dr. KJ Varghese presented a paper on *Multimodal Teaching of English* through ICT at the international conference conducted by Nepal English Language Association in **Katmandu** during in 2011.
5. Dr. KJ Varghese presented a paper on *Digital Language Lab* at the international conference in Pokhara, **Nepal** organized by NELTA, Nepal in 2011.
6. Prof. K Y Shaju presented a paper on superconductivity of selected metals in the 11th Asian - Pacific Regional International Astronomical Union meeting, APRIM in 2011, held at Chiang Mai, **Thailand**.
7. Dr. Sudhikumar A. V. presented a paper Spider diversity in an elevational gradient of Nelliampathy hills, Kerala in 26<sup>th</sup> European congress of Archaeology held at Bengurion University, **Israel** in 2011.
8. Dr. Sudhikumar A. V. presented a paper Preliminary study on the identification of spiders using mitochondrial DNA in 18<sup>th</sup> International Congress of Archaeology (ICA). Siedlce, **Poland** in 2010.
9. Dr. Fr. Jolly Andrews presented a paper entitled *Computation of Flux Effects in High Temperature Superconducting Coplanar Wave Guides* in the IEEE international conference, NEMO2014 organized by IEEE and University of Pavia, **Italy**
10. Dr. Jolly Andrews participated and presented a paper entitled *Numerical Simulation of Superconducting Nanostrip Wave guides for Higher Frequency Applications* in international Conference on Nanomaterials and Nanotechnology (NANO-2010), KSR Campus, Tiruchengode, **Coimbatore** in 2010



11. Arun Balakrishnan MB, presented a paper Green marketing in International conference on *Entrepreneurship, Youth & Inclusive Development for Brand India* organized by Department of Commerce, *Loyola College, Chennai*, in 2011.
12. Arun Balakrishnan MB, presented a paper Methods of green marketing International conference on Sustainable Innovations in Global Business Scenario organized by Department of Commerce, *Madras Christian College, Chennai* in 2011.
13. Dr. Davis Antony Mundassery presented a paper entitled *On a Generalization of Multivariate Gamma Distribution* international conference ICONFROST, organized by the Department of Statistics, Pondicherry University on at **Pondicherry** in 2012
14. Arun Balakrishnan MB, presented a paper Future of green marketing in International conference on “Unleashing the Innovation Potential” organized by Ethiraj College for Women, **Chennai** held in 2011.
15. Josheena Jose, presented a paper Financial crisis - problems and solutions in international conference on capital markets & financial innovations held at **Barathidasan university** in 2010.
16. Josheena Jose, presented a paper Future of cooperative societies in International conference on micro finance at **Pondicherry** University on in 2010.
17. Dr. Thomas E M presented a paper global financial crisis in Third International Conference on Development challenges, Global Aspirations and Local Healthier; at Justice K S HEGDE Institute of Management NNAMIT, NITTE, **Karnataka**,(In association with university of Pennsylvania, U S A , Penn state Harrisburg, U S A, Erasmus Centre for Strategic Philanthropy then the Netherlands and Makararee Business School Uganda).
18. Dr. K.J. Vargheese presented a paper entitled *Multimedia: A Tool for Honing the Language Skills of Tertiary Level Students* at international Seminar on English Studies organized by IMRF in **Pondicherry** in 2014.
19. Chitra Sebastain presented a paper entitled *Deconstructing the Perceived Homogeneity of the Japanese: Burakumin as the Social Outcaste of Japan* in 34<sup>th</sup> Annual Session of the South Indian History Congress held at Sri. Pushpam College, Poondi, **Tanjavoor**.
20. Dr. S. Sreekumar presented a paper entitled *Need for a Landslide Hazard Micro Zonation for Risk Mitigation: Lessons Learned from Idukki District, Kerala* in the conference organized by Geological Survey of India and National Disaster Management Authority, **The Nilgiris**, Tamil Nadu.
21. Umadevi K.S, Nees Paul and V.P Joseph presented a paper entitled *A Novel Flexible Negative Permeability Metamaterial Structure Made of Conducting Wires* in international conference on competency building strategies in business and technology for sustainable development organized by Sree Ganesh College of Business management, **Tamil nadu**.
22. Alappat, L. Frechen, M. Tsukamoto, S. Sree Kumar, S. Srinivasalu, S. Gopakumar, P.G. Singhvi, A.K. *Holocene Sea-level Changes in the Coasts of Central Kerala, South India-Evidences from Coastal Wetlands and Palaeo-Beach Ridges*. The fourth IGCP 588: ‘Preparing for Coastal Change’ Conference in **Chennai**, 2013.
23. Alappat, L., Morthekai, P. Vidyasagar, A. Srinivasalu, S. Reddy, D. V. Singhvi, A.K. of *Deposition of Coastal Red dunes (Teri sands) in South India and its Palaeo-environmental Chronology implications*. PAGES 2nd Young Scientists Meet and 4th Open Science Meeting, **Goa**, 2013.
24. Alappat, L. Seralathan, P. Thrivikramji, K.P. Singhvi, A.K. *Luminescence. Chronology of Red Dune Sands on the Muttom Promontory in the South West Coast of India*. Third Asia Pacific Conference on Luminescence and Electron Spin Resonance Dating, Okayama University of Science, Okayama, **Japan**, 2012.
25. Alappat, L. Frechen, M. Sree Kumar, S. Prasad, S. Tsukamoto, S. Gopakumar, S. Anupama, K. *Evidences of Holocene Transgression from the Chronology of Wetland*





- Sediments of Central Kerala in the South West Coast of India*. Third Asia Pacific Conference on Luminescence and Electron Spin Resonance Dating, Okayama University of Science, Okayama, **Japan**, 2012.
26. Alappat, L. Tsukamoto, S. Srinivasalu, S. Ramachandran, R. Frechen M. *Luminescence Dating of Coastal Deposits from South India*, The final workshop of Leibniz Pakt project “New Dating Techniques to Reconstruct the Environment and Climate Change in Dynamic Landscape” Leibniz Institute for Applied Geophysics, Hannover, **Germany**, 2010.
27. Alappat, L. Srinivasalu, S. and Frechen, M. *Chronology of Sand Dune Formation in the Southern Part of Cauvery Delta, India*. AGE 2010- National symposium of Geologist’s Association, Department of Geology, Anna University, **Chennai**, India. 2010.

#### Details of research paper publications by the faculty

Publications in Journals	2010	2011	2012	2013	2014
International	6	7	9	7	11
National	23	34	30	25	23
Seminar proceedings	11	15	2	12	13
Others (Magazines)	7	4	6	8	7

#### 3.1.6 Give details of workshops/ training programmes/ sensitization programmes conducted/organized by the institution with focus on capacity building in terms of research and imbining research culture among the staff and students.

During last four years, the Institution has conducted following programmes with focus on capacity building in terms of research and imbining research culture.

Sl. No.	Organizing Department	Topic and Resource Person	Year
1.	IQAC	Research Orientation Programme for all PG students by Dr. A R R Menon Professor, KFRI, Peechi.	2011
2.	Chemistry	Seminar on <i>Social Relevance of Chemistry</i> by Prof. C Ravindranath, Department of Chemistry, St. Thomas college, Thrissur in connection with international year of Chemistry.	2011
3.	Mathematics and Statistics	A workshop on <i>Computational Techniques using Mathematical Software MATHCAD</i> for the research scholars by Dr. Davis Antony Mundassery, Department of Statistics.	2011
4.	IQAC	NAAC sponsored seminar on <i>Quality Sustenance in Higher Education: Challenges and Prospects of Academic and Research Transactions</i> .	2011
5.	Mathematics and Statistics	UGC sponsored National Seminar on <i>Advanced Computational Techniques (ACT 2011)</i> .	2011
6.	IQAC	State level Workshop on <i>Intellectual Property Rights</i> jointly with Patent Information Centre, KSCSTE.	2012
7.	IQAC	Seminar on <i>Research Orientation and Methodology</i> by Dr. A R R Menon, Professor, KFRI, Peechi.	2013
8.	Chemistry	Seminar on <i>Research Methodology</i> by Dr. Manoj Lazar, University of Melbourne.	2014
9.	Economics	Talk on <i>Research Design &amp; Methodology in Social</i>	2014



		<i>Sciences</i> by Dr. K P Mani, Professor, Dr. John Mathai Centre, University of Calicut, Aranattukara, Thrissur.	
10.	Economics	Talk on <i>Plagiarism</i> by Mr. Jasimudeen S, Research Scholar, MG University and Librarian, St. Stephen's College	2014
11.	Botany	Lecture on <i>Modern Trends in Plant Science</i> by Dr. G. Jayakrishnan, Sree Krishna College, Guruvayur.	2014

### 3.1.7 Provide details of prioritized research areas and the expertise available with the institution

Many of the faculty are actively involved in research. The following list gives the prioritized research area and the expertise available in the Institution.

Sl. No	Department	Name of the Faculty	Domain of Research	
1.	Zoology	Dr. Pius K. Jacob	Reproductive Biology	
2.		Dr. C. O. Joshi	Taxonomy	
3.		Dr. V. F. Paul	Developmental Biology	
4.		Dr. Balu T. Kuzhivelil	Biochemistry Biotechnology	
5.		Dr. Sudhikumar A. V.	Taxonomy	
6.		Dr. Leyon Varghese	Phytoremediation, Cancer biology	
7.	Chemistry	Dr. Mathew Paul Ukken	Inorganic Metal Complexes	
8.		Dr. V D John	Inorganic Metal Complexes	
9.		Dr. VT Joy	Fuel Cells	
10.		Rev. Dr. T M Jose	Computational Chemistry	
11.		Dr. Rani Varghese	Physical Chemistry	
12.		Chemistry	Dr. Digna Varghese	Inorganic Metal Complexes
13.			Dr. Robinson Ponniasary	Physical Chemistry
14.			Dr. TittoVarughese	Natural Products Chemistry
15.	Dr. Tom Cheriyan		Inorganic Metal Complexes	
16.	Physics	Dr. V.P. Joseph	Electromagnetism	
17.		Dr. P D Shaju	Superconductivity	
18.		Dr. Sudheer Sebastian K	Chaotic Systems	
19.		Rev. Dr. Jolly Andrews	Superconductivity	
20.	Geology & Environmental Science.	Dr. A.V George	Environmental studies	
21.		Dr. R V Rajan	Sedimentology and Geochemistry	
22.		Dr. Sreekumar S	Environmental studies	
23.		Dr. Linto Alappat	Quaternary Geology	
24.	History	Dr. K Chandran	Modern Kerala History	
25.		Dr. Binu M John	Modern Kerala History	
26.		Dr. Sreevidya V	Modern Kerala History	
27.	Economics	Dr. K.A Stephenson	Forestry & Environment Labour Studies	
28.		Dr. E.M Thomas	Economic Planning	
29.	Botany	Dr. Tessy Paul P	Phycology	
30	Physical Education	Dr. B.P. Arvinda	Prediction of Sports Performance	
		Dr. Vivekanandan	Trainings in Physical Education	



31.		Dr. N. Anilkumar	Trainings in Physical Education
32.		Dr. Jacob George	Sports Psychology and Goal Setting
33.	Commerce	Dr. P L George	Cooperative Marketing Societies
34.	English	Dr. A J Thankachan	American Literature
35.		Dr. K J Varghese	ICT in English Language teaching
36.	Hindi	DR. K M Jayakrishnan	Comparative literature
37.	Political Science	Dr. K. V. Cybil	Political Science
38.	Sanskrit	Dr. Vineetha E.	Vyakaranam
39.	Statistics	Dr. Davis Antony M	Distribution Theory
40.		Dr. Mariyamma K D	and Time series

### 3.1.8 Enumerate the efforts of the institution in attracting researchers of eminence to visit the campus and interact with teachers and students?

The College takes ardent efforts to invite eminent researchers and renowned personalities to visit College and exploit their expertise for the benefit of the faculty and students. The interaction with such personalities has impelled the students to imbibe research sensitivity. All Departments provide various platforms to unravel the boundless arenas of knowledge to the students through myriads of programmes

- International /national / state / regional seminars and workshops.
- Interaction of students with scientists/researchers of the Alumni.
- Endowment seminars organized by different Departments.
- Special collaborative programmes with various agencies
- Novel interactive programmes arranged in connection with International year for various topics.
- Talks arranged in connections with celebration of various special days like, Environment day, AIDS Day, Earth Day, Biodiversity Day, Wet land Day, Human Rights Day, Mental Health Day, etc.
- Intercollegiate quiz competitions organized by different Departments.
- Invited lectures organized by various Departmental associations.
- Orientation Programme on Yoga organized by BPE dept.
- Project Presentation Contest organized every year by all PG Departments.
- Lecture series organized by the Student's Union - like Cancer awareness programme by world famous Oncologist and the Alumnus Dr. V. P. Gangadharan. (The list of eminent persons visited the College are given in . and 3.7.4)

### 3.1.9 What percentage of faculty has utilized sabbatical leave for research activities? How has the provision contributed to improve the quality of research and imbibe research culture on the campus?

As per the Kerala State rules there is no provision to utilize sabbatical leave for research activities. However, six of the faculty have joined the FDP scheme of UGC to complete their doctoral work. About 80% of teachers are with research backgrounds. Moreover, some of the faculty do part time research without disturbing their prime duty of teaching in the campus. So the percentage of the faculty who avail of FDP leave is comparatively less. The Management encourages the faculty to attend international research seminars not only in India but also abroad for doing collaborative work. The following table gives the detail of the faculty who attended programmes like Summer/Winter Institutes/Schools.



Name of the faculty	Organizing Body	University/ Institution	Dates of Programme
Dr. Linto Alappat	Indian Academy of Science, Indian National Science Academy and National Academy of Science, India	Wadia Institute of Himalyan Geology, Dehradun	06-04-‘14 to 31-05-‘14
Chitra Sebastian	Selected as a participant of the “Youth Exchange Project with Asia-Oceania and North America” (Kizuna Bond) Project in Tokyo and Fukushima in Japan.	Japan International Cooperation Center.	3-3-’13 to 13-3-3’14
Franco T Francis	Kerala Higher Education Council, Trivandrum, A Programme for Young Teachers	Kerala Higher Education Council, Trivandrum	2-3-2014 to 12-3-2014
Dr. Linto Alappat	Ministry of Water Resources, River Development and Ganga Rejuvenation, Govt. Of India	Rajiv Gandhi National Ground Water Training and Research Institute.	27-10-‘14 to 31-10-‘14
Dr. Sudheer Sebastian	Indian Academy of Sciences, Bangalore	Department of Physics and Astrophysics, Delhi University	12-5-‘11 to 12-6-‘11

**3.1.10 Provide details of the initiatives taken up by the institution in creating awareness / advocating / transfer of relative findings of research of the institution and elsewhere to students and community (lab to land)**

- The Research Journal published by the Research Committee propagates the findings made by the students as part of their project work.
- Major research findings made by the Departments of Zoology, Environmental Science, etc. on topics related to taxonomy and earthquakes, environmental issues have received wide media coverage.
- The community is also informed about the research findings of the College through Website and other audio, visual and social media.
- Identifying the reasons for environmental issues, enhancing biodiversity awareness and environmental thrust among the public, planting saplings in nearby Governmental and nongovernmental offices, institutions etc. under the initiative of Bio-diversity Club.
- Soil and water testing/pollution studies conducted by the Department of Geology are extended to the public as an extension programme.
- Studies related to natural calamities like earthquakes, landslides etc. are aired through Radio and TV by the faculty of Department of Geology. Problems related to safety of dams and water reservoirs are also addressed by the Department through media and by publishing books.
- Department of Physics, with its expertise and facilities, entertains external projects of M.Sc, M Phil and INSPIRE students of other institutions. During the assessment period the Department successfully completed 6 M Sc projects, 4 INSPIRE projects and 1 M Phil project.
- The collections of animal diversity in Zoology Museum and specimens in Geology Museum are displayed for awareness of students of higher secondary schools every year.



- The Departments of Physics and Chemistry organize Open House programmes for the benefit of students from other institutions.
- The lush green campus with variety of herbal and medicinal trees is labeled with their scientific names by the Department of Botany.
- Medicinal properties of many herbal plants like turmeric (*Curcuma longa*) have been investigated by the Department of Chemistry and Pharmacological aspects of Curcumoid analogues have been reported.
- The expertise of the Department of Physical Education was very much utilized by the community through the technical support extended by them in various sports meets.

### 3.2 Resource Mobilization for Research

#### 3.2.1 What percentage of the total budget is earmarked for research? Give details of major heads of expenditure, financial allocation and actual utilization.

The Institution tries its best to procure funds from various agencies for the promotion of research. The faculty are encouraged to explore the possibilities of procuring more funds for undertaking research projects. In addition to this, a portion of the PTA fund is utilized for the extension of research activities. Approximately 30% of this fund is used for the research purposes. It is mainly allocated to infrastructure development, subscription of journals and purchase of books, subscription of DELNET and INFLIBNET, providing computer facilities with internet connectivity in Departments etc. Due to the enhancement of Research Centers and candidates, from 2013 onwards, the College instituted fellowship for full time candidates, who are not supported with any other fellowships. A contribution from the fund collected for self-financing programmes is also used for the promotion of research. Major heads of expenditure for the promotion of research for the last five years are the following. The College has taken efficient steps to utilize completely the amount earmarked under different heads of expenditure.

Sl. No.	Head of Expenditure	Budget Earmarked	Fund Utilized
1.	Infrastructural Development	27,00,000	28,50,000
2.	CCRF	2,50,000	Nil
3.	Library	5,00,000	5,45,000
4.	DELNET/INFLIBNET subscription	1,15,000	1,15,000
5.	Computer Facilities	15,00,000	16,50,000
6..	Income Collected from PG students for Projects (120 x 200x 5)	1,20,000	1,20,000
7.	FIST Grant	77,00,000	Utilization in progress

#### 3.2.2 Is there a provision in the institution to provide seed money to the faculty for research? If so, specify the amount disbursed and the percentage of the faculty that has availed the facility in the last four years.

- Apart from offering adequate infrastructure facilities for research activities, providing seed money to the faculty is beyond the scope of the Management. However, the Management advances money for the externally funded projects, to ensure its smooth conduct.
- The Management offers loan without interest to meet the unexpected delay in getting fund from the sponsors.



- The College also provides overhead allotment of funded projects for maintenance of equipment and for meeting the unexpected needs related to various projects.
- It occasionally offers financial support from the Management fund for conducting national and international seminars/conferences.

### 3.2.3 What are the financial provisions made available to support student research projects by students?

- Some of the students who need financial support for undertaking surveys, field works etc. seek assistance from external funding agencies. The teacher in charge helps them submit projects and audit accounts. Four projects are sanctioned to the students of Department of Zoology during the period 2010-2015.

Title of the Project	Name of Supervising Teacher and Students	Funding Agency	Fund Sanctioned
Diversity of Spiders in Chettuva Mangrove Ecosystem, Kerala	Dr. Sudhikumar A.V. Drisy Mohan O. M.	KSCSTE	12,000/-
Diversity of Spiders in Selected Agroecosystems	Dr. Sudhikumar A.V. Geethika K.	KSCSTE.	12,000/-
Diversity of spiders in Athirapally forest	Dr. Sudhikumar A.V. Ejas T. A.	KSCSTE.	9,000/-
Study of synanthropic spiders in different geographic locations of Kerala	Dr. Sudhikumar A.V. Sr. Jeena P. A.	KSCSTE.	10,000/-
Preliminary study on identification of spiders using mitochondrial DNA	Dr. Sudhikumar A.V. Kashmeera N. A.	KSCSTE.	10,000/-
Web building behaviour in spiders - An evolutionary study based on spinneret morphology	Dr. Sudhikumar A.V. Rahna M. A.	KSCSTE.	10,000/-
A Preliminary Study on the Anti-oxidant Activity of <i>Kaempheria rotunda</i> .	Dr. Leyon Varghese Jimsy Johnsn	KSCSTE	14,000/-
A Study on the Free Radical Scavenging Activity of <i>Desmodium triquetrum</i>	Dr. Leyon Varghese Neethu M U	KSCSTE	14,000/-
Fuel Cell for Automobile Applications	Dr. V T Joy Greeni K I, Veena K S	OASIS Chemicals Dubai.	5,00,000/-

- A fund is collected from the faculty at Department levels is utilized for helping the needy students in their field work.
- The fund offered under the UG and PG heads during the various Plan periods are utilized mainly for the purchase of essential equipment, chemicals, computers, books and journals. Students are provided with these infrastructure and learning facilities to support their research projects.
- The Management offers CCRF grant to full time research scholars who do not have any other fellowships.
- The Management advances financial assistance for field trips for students connected with their projects. The funds sanctioned by UGC are also utilized for the same.
- The faculty helps students to procure available funds for doing their research projects from various funding agencies.



### 3.2.4 How do the various departments/units/staff of the institute interact in undertaking inter-disciplinary research? Cite examples of successful endeavors and challenges faced in organizing interdisciplinary research?

The College takes keen interest and promotes interdisciplinary research projects. Many research projects which are in progress and those already completed during the last four years have interdisciplinary objectives. The faculty from the Departments of Geology, Botany, Physics, Chemistry and Zoology take part in these projects. The doctoral works done by some of the faculty members from Departments of Zoology, Physics and Chemistry are linked with Environmental Science. Some of the projects undertaken by PG students are also inter-disciplinary in nature. The Environmental Science M Sc course offered by the College is an interdisciplinary venture. A UGC sponsored innovative programme, PG Diploma in Sustainable and Green Energy Technologies is conducted by the Departments of Physics is interdisciplinary nature.

#### Projects, Interdisciplinary-in-nature, Undertaken by the Faculty

Sl. No.	Name of the Principal Investigator and Project Title
1.	Dr. John Thomas - Impacts of land use changes on the ecology of <i>Kol</i> wetlands (part of Vembanad <i>Kol</i> )- A Ramsar Site.
2.	Dr. George A.V. - Predictive modeling for landslide occurring in the Western Ghats region of Kerala based on field studies and critical evaluation of land satellite imageries and GIS applications.
3.	Dr. Sreekumar S. - Hazard and risk analysis of slide prone areas in Kerala Western Ghats.
4.	Dr. Balu T. Kuzhivelil- Metallothionein Gene, a molecular biomarker for heavy metal pollution and management.
5.	Dr. V. T. Joy - Development of fuel stacks for automobile applications.

### 3.2.5 How does the institution ensure optimal use of various equipments and research facilities of the institution by its staff and students?

The College provides very good infrastructure facilities and well equipped laboratories for the staff and students and its maximum utilization is ensured for research activities.

- The internet facility with localized WIFI access in Departments is provided for the use of the faculty. Students utilize unlimited internet facility at the internet café.
- PG students are provided with unlimited internet access in the library and downloading facility of DELNET and INFLIBNET journal articles.
- The teachers have the freedom to use the equipment and other research facilities at any time according to their convenience as and when they decide.
- Part-time research students use the laboratories during holidays and vacation.
- The working hours of library and internet cafe are extended so as to ensure the maximum utilization of the resources. Stipulation of the date of return of library books is strictly adhered to, including fine, so as to ensure maximum circulation of the materials.
- Departments encourage students to pursue their studies through research and the faculty to register as supervisors at various Research Centers of the College.
- Through the complete utilization of the fund offered by FIST, the College expects to offer more sophisticated equipment and attract more researchers in Science Departments.



**3.2.6 Has the institution received any special grants or finances from the industry or other beneficiary agency for developing research facility? If 'yes' give details.**

The Research Committee and IQAC jointly took initiative to persuade the faculty to get funding from external agencies to involve in research activities. Even though the main sponsor of the projects of the College is UGC, funding from DST, KSCSTE, MOEF, Planning and Economic Affairs, Environment Management Agency etc. is also availed. The fund offered in the FIST scheme of DST is utilized for the development of the Departments of Physics, Chemistry and Zoology. The fund offered under the various research projects are utilized for the development of research facility.

**3.2.7 Enumerate the support provided to the faculty in securing research funds from various funding agencies, industry and other organizations. Provide details of ongoing and completed projects and grants received during the last four years.**

The Research Committee and IQAC give wholehearted support to the faculty for obtaining research funds from various funding agencies. They are provided with timely information regarding preparation of the proposal, submission of the proposal, preparation of the report and settlement of the project. Apart from this, different seminars related to project schemes, funding agencies, patents, etc. are also organized for research students and teachers. The workshop on Intellectual Property Rights organized by IQAC provided awareness of the process of patent registration.

**3.3 Research Facilities**

**3.3.1 What are the research facilities available to the students and research scholars within the campus?**

- **Common research facilities made available for students and research scholars.**
  - Six Research Centers in the College approved by the affiliating University.
  - Admission to the research Departments twice a year.
  - The faculty as research guides with guideships in other institutions/universities.
  - Separate rooms for doing major research projects.
  - Computerized library with a collection of 70000 books, nearly 150 CD ROMs and internet connectivity in 25 PCs.
  - DELNET and INFLIBNET access to research journals in the library.
  - Separate laboratories for all UG, PG and Research programmes.
  - Research Committee meetings twice a year to discuss the progress of the work.
  - Talks on Research Orientation and Methodology organized by the Research Committee and IQAC.
- **Facilities at Departmental Research Laboratories**
  - Electromagnetic Research lab (Physics).
  - Computational Research Lab (Physics).
  - Animal behavioral Lab & animal houses (Zoology).
  - Immunology & Toxicology Research Lab (Zoology).
  - Centre for Animal Taxonomy and Ecology (Zoology)
  - Applied Biochemistry and Biotechnology lab (Zoology).
  - Fish ponds (Zoology).
  - Animal Houses (Zoology).
  - Zoology Museum.
  - Language Lab (English).
  - Medicinal Plants & Botanical Garden.
  - Geology lab.





- GIS lab.
- Geology Museum.
- Water Analysis Lab (Environmental Science).
- Botany lab.
- Psychology lab.
- Computer Labs.
- Fuel Cell & Battery testing lab (Chemistry).
- Fuel Cell moulding Lab (Chemistry).
- Internet facility.

➤ **Department wise Major Research Equipment:**

Sl. No	Equipment	Cost
<b>Department of Physics</b>		
1	UV Exposure Unit	50,163.00
2	CCD spectrum analyzer	4,00,000.00
3	Elipsometer	3,00,000.00
4	Dip coating Unit for thin film coating	2,00,000.00
5	Work Station with 5 nodes	5,00,000.00
6	Dip Coating Unit for photolithography	2,00,000.00
7	X band Microwave Test bench	40,000.00
8	C band Microwave Test bench	2,30,000.00
9	J band Microwave Test bench	
10	Microwave Power meter	1,50,000.00
11	Microwave Sweep Source	2,05,000.00
12	Wide band Horn Antenna	80,000.00
13	Antenna Trainer	1,50,000.00
<b>Department of Chemistry</b>		
1	UV spectrometer	2,00,000.00
2	Hydraulic Press (100 Ton)	3,00,000.00
3	Hydraulic Press (10 Ton)	1,50,000.00
4	Rolling Machine	50,000.00
5	Rota Evaporator	3,00,000.00
<b>Department of Botany</b>		
1	Research Microscopes	50,000.00
2	Research Microscope with Digital Camera	1,00,000.00
3	Microtome	20,000.00
4	Centrifuge	20,000.00
5	Stereoscopic Dissection Microscope	18,000.00
<b>Department of Zoology</b>		
1	Spectrophotometer	2,75,000.00
2	Colorimeters	25,000.00
3	BOD incubator	50,000.00
4	Refrigerated centrifuge	80,000.00
5	Thermocycler (Eppendorf)	1,50,000 .00
6	Gel documentation unit	1, 55,436.00
7	-20°C Deep Freezer (Labline)	48,000.00
8	Research Centrifuge (Remi)	42,200.00



9	Trinocular stereo zoom microscope	5,45,000.00
10	Canon EOS 5D digital SLR camera	2,47,000.00
<b>Department of Geology and Environmental Science</b>		
1	Spectrophotometer	4,00,000.00
2	Resistivity meter	1,50,000.00
3	Flame photo meter	1,00,000.00
4	Section cutting machine	1,00,000.00
5	Polishing machine	1,00,000.00

### **3.3.2 What are the institutional strategies for planning, upgrading and creating infrastructural facilities to meet the need of researchers especially in the new and emerging areas of research?**

- The Institution considers that expansion of facilities is essential for the growing academic needs and especially for research in new and emerging areas.
- The Research Committee and IQAC look into the strategies for planning the creation and upgradation of the facilities required for research.
- A consultation with the experts in the field is made before the upgradation of the existing facility or creation of new facilities.
- New self-financing programmes are started with the aim of partially supporting these objectives. Moreover, the Institution mobilizes funds for developing and improving the research facilities from various agencies and well-wishers.
- The College wishes to build a new Research Block for providing sufficient space and facilities for researchers.
- The faculty are encouraged to apply for various research projects and to avail financial support for improving the facilities.
- The updation of the library and up gradation of laboratories are effectively carried out using the funds offered by agencies like, UGC, DST, KSCSTE, etc. with focus on emerging areas of research.

### **3.3.3 Has the institution received any special grants or finances from the industry or other beneficiary agency for developing research facilities? If 'yes' what are the instruments/facilities created during the last four years?**

In order to develop research facilities, the College has received financial support mainly from the UGC for different Plan periods. In the fund sanctioned to the faculty for doing research projects by various agencies, the allotments of amount to the various heads like books and journals, equipment, etc are strictly accounted in the concerned heads and not diverted to any other purposes. The research facilities available in the College are provided in 3.3.1. The College was sanctioned FIST grant offered by the DST and its implementation is in progress. Dr. Sudhikumar A. V and Dr. Leyon Varghese from the Department of Zoology and Dr. V. T. Joy from the Department of Chemistry have undertaken collaborative works with industry and the fund received was utilized for the improvement of laboratory facilities. Appreciating the interest of the faculty in research programmes, two benefactors contributed Rs. 10 lakhs which was utilized to enhance the research facilities of Departments.

### **3.3.4. What are the research facilities made available to the students and research scholars outside the campus/other research laboratories?**

The College directly does not provide any linkage or collaboration with other institutions of higher learning. However, students utilize the libraries and other infrastructure facilities



of some Research Centers and industries through the personal contacts of the faculty with the authorities of these centers. These linkages are availed for taking up projects of UG and PG students and higher research works. Some of the places of frequent visit are: CUSAT Cochin, CMFRI Cochin, Amala Institute Medical Sciences, Thrissur, Kerala Forest Research Institute, Peechi, Kerala Agricultural University, Public Library Thrissur, Kerala Sahithya Academy Thrissur, Government Medical College Thrissur, Kerala Solvent Extractions Limited Irinjalakuda etc. Moreover, some of the faculty are approved research guides of other universities or research centers and this is fruitfully utilized by our students in the completion of their dissertation work.

### **3.3.5 Provide details on the library /information resource centre or any other facilities available specifically for the researchers?**

- The library offers journals and references of advanced books especially for the use of researchers.
- Separate sections for different areas of references, journals, magazines, newspapers, etc are provided.
- Sufficient numbers of PCs are provided with internet access.
- Journals and e-books are offered by INFLIBNET and DELNET for downloading articles.
- Timely updation of advanced books of all disciplines in consultation with research guides.

### **3.3.6 What are the collaborative researches facilities developed/created by the research institutes in the college? For ex. Laboratories, library, computers, new technology etc.**

Various Departments have linkages with research promoting institutions and industries. (Details given in 3.7.5). Collaborative research exposure of the faculty is utilized by the UG and PG students to do the project works in industry- related topics. A computational work station has been installed for doing research, related to theoretical Physics and theoretical Chemistry. An elaborate Computer Lab with multimedia facility, internet connectivity and e- learning room to enhance the research facility.

## **3.4 Research Publication and Awards**

### **3.4.1. Highlight the major research achievements of the staff and students in terms of Patents obtained and filed (process and product):**



No patent of research findings is registered during the last five years. However, a good number of minor and major research projects undertaken by the faculty and students are constructive for social development. Projects undertaken by the Department of Zoology and Environmental Science are on socially relevant topics. For example:

- Study on impact of land use changes on *kol* wetland held at Muriyad in Thrissur district spotted four major migratory fish species, usually seen in estuaries.
- Development of strategies for seed production and enhancement of larval survival in *Ompok malabaricus* and *O. bimaculatus*.
- Hazard and risk analysis of land slide prone areas in Kerala Western Ghats.
- Impacts of land use changes on the ecology of *Kol* wetlands, part of Vembanad *Kol-A* Ramsar Site.
- Identified two new species of spiders from the College campus. The spiders belong to the genus *Tetragnatha* of family *Tetragnathidae* (common name-Long Jawed Spider) and genus *Metidia* of family *Clubionidae* (common name-Sac Spider). ***The team has identified a total of 95 species of spiders.***



- Discovered rare species of spider which was on the verge of extinction. This rare spider which is known as *Cryptothela* (female) is found existing in the jungles of Thommankuth Waterfalls near Thodupuzha.
- The Enigmatic subterranean fish discovered in the western parts of Western Ghats, of Chalakudy, was reported as a new Genus and new species.
- **Original research contributing to product improvement**
  - Development of a new dielectric horn antenna has application in microwave communication systems.
  - A Flexible Metamaterial structure corresponding to microwave frequencies is fabricated in two dimensional form is the first of its kind.
  - Automatic frequency scanning of Microwave Gunn diode and a data acquisition system are developed using PHOENIX interfacing system.
  - Analysis of FDTD Metamaterials based on effective medium theory is developed.
  - Impacts of Vortex dynamics on Microwave transmission through High Temperature Superconducting Transmission Lines are theoretically proposed.
- **Research studies or surveys benefiting the community or improving the services**

The faculty of the Departments of Economics, Commerce, Physics, Geology & Environmental Science etc. are actively involved in conducting studies which are socially relevant. About 60 research studies/surveys related to these topics are conducted by the PG and research students. Some of them are related to Women empowerment, community awareness, social sensitization, environmental issues, waste management, unemployment, migrant labourers, saving behaviour of gulf migrant families, energy consumption, policy initiatives for infrastructure development, public transport system, water quality analysis, water conservation awareness etc. The service of water analysis lab offered by the research Department of Geology and Environmental Science is open to the public also.
- **Research inputs contributing to new initiatives and social development**

Partial sequences of Metallothionein gene of the fish *Aplocheilichthys lineatus* is deposited in the Gene Bank of NCBI. (Gene Bank Accession Number KF 953724).

**3.4.2 Does the institute publish or partner in publication of research journal(s)? If 'yes', indicate the composition of the editorial board, publication policies and whether such publication is listed in any international database?**

The College has an interdisciplinary research journal published every year, entitled 'Research Review', for publishing the research works of the students and the faculty. Since the research article published in this journal was receiving limited exposure to the research community, the faculty have taken initiative to publicize these findings in international/national journals, with good impact factor. At the end of each academic year, the reprints of all publications are made available in the library in the form of bound volume for reference. However, in order to develop research culture among students, the PG and research students are given opportunities to present their research findings in Departmental presentation contests and the Best Presenter's Paper from each Department is published in the journal 'Research Review'. The journal is published by the Research Committee and it has an editorial board consisting of the Principal as the patron and the Research Committee coordinator as the Chief Editor.



### 3.4.3 Give details of publication by the faculty and students

The details regarding the publications of the faculty are listed in the following table.

Sl. No.	Details		Number
1	Total Number of Publications of the Faculty		228
	Average publications per faculty		3
2	Publications by the faculty and students between 2010 - 2014	International/ National peer reviewed journals	175
		Proceedings	53
		Total	228
		Publications per faculty	3
		Listed in International database	106
3	Books Published / Edited	International	1
		National	4
4	Book Chapters / Sections	International	3
		National	30
5	Other Publications	Bulletin	3
		Magazine/Weekly	4
		Daily	9

A total of 175 papers published in international/national peer reviewed journals. Publications in proceedings of international/national seminars and magazines are extra.

1. Mathew Paul U. and Muhammed Basheer U. Synthesis and Characterization of Two Conjugated Beta Biketones and Their Metal Complexes, *Journal Archives of Applied Science Research*, 2013, 5(1), 247-250.
2. K. L. Krishnakumar and Mathew Paul U. Metal Complexes of Heterocyclic Unsaturated-  $\beta$  Diketones, *International Journal of Pharmaceutical Sciences and Research*, 2013, 4(3), 1154-1158.
3. K. L. Krishnakumar and Mathew Paul U. Synthesis, Characterization of some Heterocyclic Curcumin Analogues and Their Copper Complexes as Antitubercular and Antimicrobial Agents, *International Journal of Recent Scientific Research*, 2013, 4(2), 122-127.
4. V. D. John et al., Synthesis, Characterization and Antitumour Studies of Some Curcuminoid Analogues and Their Aluminum Complexes, *Journal of Coordination Chemistry*, 2013, 66, (9), 1508-1518.
5. C. U. Aniz, P. P. Robinson, K. K. Abdul Rashid, T. D. Radhakrishnan Nair, Correlation Between the Reduction Behavior of Ferrosinels Synthesized by a Soft Chemical Method and Their Carbon Monoxide Oxidation Activity. *Reaction Kinetics, Mechanisms and Catalysis*, 2012, 107(2), 355-365.
6. V. D. John and K. Krishnankutty, Antitumor Studies of Aluminum Complexes of Synthetic Circuminoids, *Main Group Metal Chemistry*, 2010, 33(3), 157-166.
7. Mathew Paul Ukken. Metal Complexes of Unsaturated Polycarbonyl Compounds Derived from Benzoyl Acetone and Aromatic Aldehydes, *Journal of Iranian Chemical Research*, 2010, 3(2), 71-81.
8. P.P. Robinson, V. Arun, S. Manju, C.U. Aniz, K.K.M. Yusuff, The Active Phase ( $Ni^{2+}$ ) Distribution in  $Ni/\gamma-Al_2O_3$  Catalysts Prepared by Impregnation of Bis (ethylenediamine) nickel(II) Complexes", *Chemical Engineering Communications*, 2012, 199(3).



9. G. Varsha, V. Arun, P. P. Robinson, Manju Sebastian, Digna Varghese, P. Leeju, V. P. Jayachandran, K. K. M. Yusuff, Two New Fluorescent Heterocyclic Perimidines: First Syntheses, Crystal Structure, and Spectral Characterization, *Tetrahedron Letters*, 2010, 51, 2174–2177.
10. P.P. Robinson, V. Arun, S. Manju, C.U. Aniz, K.K.M. Yusuff, Oxidation Kinetics of Nickel Nano Crystallites Obtained by Controlled Thermolysis of Diaqua-bis (ethylenediamine) nickel(II) nitrate, *Journal of Thermal Analysis and Calorimetry*, 2010, 100, 733-740.
11. V. Arun, S. Mathew, P.P. Robinson, M.Jose, V.P.N. Nampoori, K.K.M. Yusuff. The Tautomerism, Solvatochromism and Non-linear Optical Properties of Fluorescent 3-hydroxyquinoxaline-2-carboxalidine-4-aminoantipyrine, *Dyes and Pigments*, 2001,87(2), 149-157.
12. Manju Sebastian, V. Arun, P.P. Robinson, Annu Anna Varghese, Rani Abraham, E. Suresh, K.K. Mohammed Yusuff, Synthesis, Structural Characterization and Catalytic Activity Study of Mn(II),Fe(III), Ni(II), Cu(II) and Zn(II) Complexes of Quinoxaline-2-carboxalidine-2- amino-5-methylphenol Crystal Structure of the Nickel(II) Complex, *Polyhedron*, 2010, 29, 3014-3020.
13. Tom Cherian. Thermogravimetric and Crystallinity Study of BR/PS. *Benz International Journal of Modern Chemistry and Chemical Technology*, (2014), 5,126.
14. Tom Cherian. Simple Spectrophotometric Determination of Chromium In Industrial Effluents And Water Samples. *Analytical Chemistry*, 2014, 10, 135.
15. Robinson P.P et al.Ni(II) and Ru(II) Schiff Base Complexes as Catalysts for the Reduction of Benzene.*Journal of Molecular Catalysis A: Chemical*. (2009), 191-198.
16. Arun S, D.Bahulayan. An Easy Two Step Synthesis of Macrocyclic Peptido Triazoles via a Four-component Reaction and Copper Catalysed Intramolecularazide-alkyne [3+2] clickcycloaddition. *Tetrahedron Letters*(2012), 2850-2855.
17. Arun. S et al. Fully Biodegradable Potato Starch Composites: Effect of Macro and Nano Fiber Reinforcement on Mechanical, Thermal and Water-sorption Characteristics. *International Journal of Plastic Technology* (2012)50-66.
18. Arun S. et al. Highly Anti-Selective One-Pot Multicomponent Synthesis of Mannich- Type N-Acylated $\beta$ -Amino Acid Derivatives by Copper or Sodium Salt Catalysis. *Synthetic Communications* (2012) 1162–1176.
19. Arun S. et al.Studies on Properties of BioComposites from Ecoflex/Ramie Fabric-Mechanical and Barrier Properties. *Journal of Biomaterials and Nano Biotechnology*, (2012)396-404.
20. TittoVarughese et al. Chemical Constituencies of the New Endophytic Fungus *Mycosphaerella* sp. nov. and Their Antiparasitic Activity. *Natural Product Communications* (2011)-835-840.
21. TittoVarughese et al. NovelOxidized Derivatives of Antifungal Pyrrolnitrin from the Bacterium *Burkholderia cepacia* K 87. *Journal of Antibiotic* (2008)420-425.
22. TittoVarughese et al. Antifungal Deficit on Metabolites from *Cordyceps diptergena*, an Endophytic Fungal Antagonistic to the Phytopathogen *Gibberella fujikuroi*. *Tetrahedron Letters* (2012)1624-1626.
23. TittoVarughese et al. Tea Triterpenoidal Saponins from the Roots of *Camellia sinensis* have Inhibitory Effects Against Alcohol Dehydrogenase. *Tea TriterpenoidalSaponins*. (2010)345-356.
24. TittoVarughese et al. Gamnamoside, a Phenylpropanoide Glycoside from Persimmon Leaves (*Diospyros kaki*) with Inhibitory Effects Against an Alcohol Metabolizing Enzyme. *Bull. Korean Chem.Soc.* (2009)1035-1043.



25. TittoVarughese. Study on *Eupatorium triplinerve* Vahl from South India, A Rich Source for Thymohydro quinonedimethylether and its Antimicrobial Activity. *Journal of Essential Oil Bearing Plants*2014,17 (4), 652-657.
26. Jolly Andrews and V. Mathew. Vortex Dynamics Effects on Microwave Propagation in High Temperature Superconducting Coplanar Waveguides. *Journal of Applied Physics*, 114, 163914 (2013).
27. P.L. Anto, Rajeev P. Ulahannan, C.Yohannan Panicker, Vibrational Spectroscopic (FTIR, FT-Raman,NBO, HOMO-LUMO,MEP) Investigations and Quantum Chemical Calculations of 4-Hydroxy-2-oxo-1,2-dihydroquinoline-8-carboxylic acid', *Spectrochimica Acta Part A, Molecular and Biomolecular Spectroscopy*, 2013.
28. P. Menon. Ragi, K. S. Umadevi, Paul. Nees, JoviaJose,M. V. Keerthy, and V. P. Joseph, Flexible Split-Ring Resonator Metamaterial Structure at Microwave Frequencies, *Microwave and Optical Technology Letters*, USA, Vol. 54, No. 6, June 2012.
29. Jolly Andrews and V. Mathew. Magnetic Field Induced Properties of Type II Superconducting Microstrip Resonators, *Supercond. Sci. Technol.* 25, 2012.
30. Jolly Andrews and V. Mathew "Numerical Study of Vortex Effects in Superconducting Microstrip Lines, *Physica C* 471, 338-43, 2011.
31. K.S. Sudheer and M. Sabir, Adaptive Modified Function Projective Synchronization of Multiple Time-delayed Chaotic Rossler System, *Physics Letters A* 375, 1176(2011).
32. Nees Paul and V P Joseph, Metamaterials, *Scientia*, Vol7, No1, 2011, pp 25-31.
33. K.S. Sudheer and M. Sabir, Function Projective Synchronization in Chaotic and Hyperchaotic Systems Through Open-Plus-Closed-Loop Coupling, *Chaos* 20, 013115(2010).
34. K.S. Sudheer and M. Sabir, Modified Function Projective Synchronization of Hyperchaotic Systems Through Open-Plus- Closed-Loop Coupling, *Physics Letters A* 374, 2017(2010).
35. K.S. Sudheer and M. Sabir, Switched Modified Function Projective Synchronization of Hyperchaotic Qi System with Uncertain Parameters, *Communications in Nonlinear Science and Numerical Simulations* 15, 4058(2010).
36. Sudheer Sebastian and M. Sabir, Adaptive Function Projective Synchronization of Two Cell Quantum – CNN Oscillators With Uncertain Parameters', *Physics Letters A*, 2009, 373, 1847.
37. Sudheer Sebastian and M. Sabir, Adaptive Modified Function Projective Synchronization Hyper Chaotic Lorez System and Hyperchaotic Lu System with Uncertain Parameters, *Physics Letters A*, 2009, 373, 3743.
38. Sudheer Sebastian, Hybrid Synchronization of Hyperchaotic Lu System', *PRAMANA, Journal of Physics*, 2009, 73(4) 781.
39. V P Joseph et al. Flexible Meta material Structure at Microwave Frequencies, *Journal Microwave and Optical Technology Letters*, 2012, 1415–1416.
40. Jolly Andrews, Vincent Mathew. Numerical Simulation of Superconducting Nanostrip wave guides for High frequency Applications. *Nanostructured Materials for Electronics, Energy and Environmental Applications*(2010) 65-70.
41. K.S Umadevi and V.P Joseph. Experimental Studies on the Effect of Substrate Dielectric Constant on the Resonant Frequency of Split-Ring Resonator Metamaterial StructureInternational. *Journal of Science and Research*, 2014, Vol 3132-135
42. Xavier Joseph. Spectroscopic Investigations on  $\text{Eu}^{+3}$  ions in Li-K-Zn fluorotellurite glasses *Optical Materials*, 2014, Vol 37, 552-60. 2.075



43. Jolly Andrews, Vincent Mathew. Modelling of High Temperature Superconducting Coplanar Waveguides for Microwave propagation under a Magnetic Field. *ICMAP(2013)*-63.
44. Jolly Andrews and Vincent Mathew. Propagation Characteristics of Superconducting Slotlines in Vortex State. *Journal of Superconductivity and Novel Magnetism* -(Accepted)
45. Kadeeja Beevi M and S Sreekumar. Ecological Set up and Occupational Health Hazards Due to Coir Setting, *Journal of Nature Environment and Pollution Technology*. 2012, Vol.11, No.4.
46. A.V George, Morphometric Analysis and Micro Watershed Prioritization of Peruvanthanam Sub watershed, the Manimal River Basin. *Journal Environmental Research Engineering and Management*, 2011, No 3 (57), pp 6-14.
47. Sreekumar. S, Roshni. K, Aaron Wilson (2010) An Evaluation of Land use Changes and Land Degradation - A Case Study from Eranad Taluk, Malappuram District, Kerala. *Earth Resources and Environment*, 16:51.
48. Subin K. Jose. Spatio Temporal Vegetation Analysis in Neyyar Wildlife Sanctuary, Western Ghats, India using Geoinformatics. *International Journal of Current Research* V 6, Aug 2014, pp -7780 – 7784.
49. Subin K. Jose. Landscape Ecological Assessment and Forest Disturbance Analysis using Geoinformation Technology in Neyyar Wildlife Sanctuary, Western Ghats, India. *International Scientific Journal on Science, Engineering and Technology* V. 17, 2014 , pp 705- 713
50. Subin K. Jose. Geospatial Time series Forest Disturbance Analysis in Neyyar Wildlife Sanctuary, Western Ghats, India. *International Journal of Revolution in Science and Humanity*. V. 4, Issue 2, 2014 pp. 68 – 73.
51. Sreeekumar et al. Ecological Effects and Occupational Health Hazards Due to Coir Retting: A Case Study from West Coast of Kerala, India. *Nature, Environment and Pollutiona Technology* (2012)585-590.
52. Sreeekumar S., A.Asalam. Potential of GIS Evaluation for Mass Wasting Processes in Mountain Ranges of South West coast of India. *Journal of Earth Science and Engineering* (2013) 416-421.
53. S. Sreekumar, K.J. Babu, Arish Aslam, K.P.Midhun. Hypsometry and Geomorphic Development of a Water Shed: A Case Study from South India. *International Journal of Science and Research*, Vol.3, October 2014, pp.1495-1500
54. Sreekumar S et al. Vegetation Pattern Analysis of Karuvannur Watershed Kerala Using Remote Sensing and GIS. *Indian Journal of Forestry* (2010) 143-148.
55. R.V. Rajan Landscape Ecological Assessment and Forest Disturbance Analysis using Geoinformation Technology in Neyyar Wildlife Sanctuary, Western Ghats, India. *International Scientific Journal on Science, Engineering and Technology* V. 17, 2014, pp 705- 713.
56. R.V. Rajan . Evidences of Holocene Progradation from the coast of Kerala, South India using Optically Stimulated Luminescence Dating. *Journal of Geomorphology*. 2014, pp.1495-1500
57. R.V. Rajan . Spatio Temporal Vegetation Analysis in Neyyar Wildlife Sanctuary, Western Ghats, India using Geoinformatics. *International Journal of Current Research*. V 6, Aug 2014, pp -7780 – 7784.
58. R.V. Rajan . Geospatial Time series Forest Disturbance Analysis in Neyyar Wildlife Sanctuary, Western Ghats, India. *International Journal of Revolution in Science and Humanity*. V. 4 , Issue 2, 2014 pp. 68 - 73
59. Linto Alappat et al. Evolution of late Holocene Coastal Dunes in the Cauvery Delta Region of Tamil Nadu, India. *Journal of Asian Earth Sciences* (2011)381-397.





60. Linto Alappat et al. Chronology of Red Dune Aggradations of South India and its Palei Environmental Significance. *Geochronometria* (2013)274-282.
61. Linto Alappat et al. Chronology of Cavery Delta Sediments from Shallow Subsurface Cores Using Elevated Temperature Post-IR IRSL Dating off Feldspar *Geochronometria* (2010)37-47.
62. Linto Alappat et al. Evidences of Holocene Progradation from the Coast of Kerala, South India using Optically Stimulated Luminescence Dating. *Journal of Geomorphology* (Accepted).
63. Sreeekumar S., A.Asalam. Spatio Temporal Distribution of Slope Failures in the Western Ghats of Kerala, India. *Risk Analysis* (2010)417-427.
64. Davis Antony Mundassery, On Bivariate Discrete Linnik Distribution” *Journal Statistica*, 2013. Vol. 18,5 387-400.
65. Shinto K G and C M Sushama (2013), An Algorithm for Solving Integer Linear Programming Problems, *International Journal of Research in Engineering and Technology IJRET*, Vol. 2, (7). 37-47.
66. Shinto K G and C M Sushama (2013) Cost Minimization in Fuzzy DEA Models, *International Journal of Advanced Research (IJAR)*, Vol. 1, issue 5). 2320-5407.
67. Jose, K.K., Mariyamma, K.D. (2013). A Note on an Integer-valued Time Series Model with Poisson-negative Binomial Marginal Distribution. *Communications in Statistics: Theory and Methods* (accepted for publication), in press,
68. Jose, K.K., Mariyamma, K.D. (2013). Time Series Models with Discrete Poisson-Laplace Marginals. *Journal of Mathematics and System Science* (accepted for publication), in press.
69. Jose, K.K., Mariyamma, K.D. (2013). Katz Family of Distributions and Processes. *Journal of Probability and Statistical Sciences* (accepted for publication), in press.
70. Davis Antony Mundassery, On a Generalization to Moran’s Bivariate Gamma Distribution, *Journal of Statistics and Applications*, 2012, Vol. 7, (1-2), pp. 95-112
71. Jose, K.K., Mariyamma, K.D. (2012). Integer Valued Autoregressive Processes with Generalized Discrete Mittag-Leffler Marginals. *Statistica*, anno LXXII, n.2, 195-209.
72. Jose, K.K., Mariyamma, K.D. (2012). Geometric Compounding of Discrete Semi Mittag-Leffler Distributions and Processes. *VISTAS*, 1(1), 71-80.
73. Jose, K.K., Mariyamma, K.D. (2012). Discrete Stable-Linnik Distribution and Processes. *Journal of Statistics and Applications*, 7(1), 1-14.
74. Jose, K.K., Mariyamma, K.D. (2012). Luders Formel I Integer Valued AR(1) model. *VISTAS* 2(1), 134-142.
75. Davis Antony Mundassery and Jayakumar, K. (2009) Bivariate Tailed Distributions and Processes, *Journal of Statistics and Applications*, 4,(1), 123-132
76. Shinto K G et al. New Approaches for integer linear programming Mathematical and Computational Model (2012). 6: 123-147.
77. Guo K, Tang JP, Jie L, Al-Aidaros AQ, Hong CW, Tan CP, Park JE, Varghese L, Feng Z, Zhou J, Chng WJ, Zeng Q. Engineering the First Chimeric Antibody in Targeting Intracellular PRL-3 Oncoprotein for Cancer Therapy in Mice. *Oncotarget*. 2012, 3 (2) 158-171.
78. Moncey Vincent, Occurrence, Distribution and Troglomorphisms of Subterranean Fishes of Peninsular India. *Current Science*. 102(7):1028-1034. 2012.
79. Guo K, Li J, Tang JP, Tan CP, Hong CW, Al-Aidaros AQ, Varghese L, Huang C, Zeng Q. Targeting Intracellular Oncoproteins with Antibody Therapy or Vaccination. *Science Translational Medicine*. 2011 3(99): 85-99.
80. Guo K, Tang JP, Li J, Tan Cheng Peow, Abdul Qader Al-Aidaros, Varghese L, Cheng William Hong, Feng Z, Zhou J, Wee JooChng and Zeng Q. Host Immunity is Crucial for the Anticancer Efficacy of a Chimeric Antibody Targeting



- Intracellular PRL-3 in Animal Models. *Science Translational Medicine*. 3(99):85-99.2011
81. Binu Antony, P. A. Sinu and S. Das. New Record of Nucleopolyhedro Viruses in Tea LooperCaterpillars in India. *Journal of Invertebrate Pathology*. 108: 63-67. 2011.
  82. Sinu P. A., Binu Antony and S. Mallick. The Occurrence of Nucleopolyhedro Virus Infecting *Hyposidratalaca* (Geometridae: Lepidoptera), a Tea Defoliator from North-East India. *Biocontrol Science and Technology*. 21(8): 999-1003. 2011.
  83. Jilna Alex and John Thomas. K Factors Influencing Shoaling Preference in *Puntius sarana subnasutus*. *Current Science* 100(5), 633-634, 2011.
  84. Jilna Alex and John Thomas. K Influence of Turbidity on the Shoaling Preferences of *Puntius sarana subnasutus*. *Journal of Inland Fisheries Society of India*, 43 (2), 79 – 81, 2011.
  85. Jilna Alex N. and John Thomas K. Effect of Sublethal Concentration of Methyl parathion on the Behavioural Activities of the Climbing perch *Anabas testudineus*. *Advances in Applied Science Research*. 2(5): 167-172. 2011.
  86. Sheenaja K. K. and John Thomas K. Influence of Habitat Complexity on Route Learning Among Different Populations of Climbing perch *Anabas testudineus*. *Marine and Freshwater Behaviour and Physiology*. 37-41. 2011.
  87. Sheenaja K. K., V. B. Rakesh and John Thomas K. The Population Difference in Sequential Learning, Value Transfer Ability of Climbing perch *Anabas testudineus*. *Advances in Applied Science Research*. 2(4): 512-520. 2011.
  88. Moncey Vincent and John Thomas, 2011. Observations on the Foraging Behaviour of a Subterranean fish *Monopterus digressus* *Ichthyological Research*, Vol. 52 No. 1 page 95-98.
  89. Moncey Vincent and John Thomas. *Kryptoglanis shajii*, an Enigmatic Subterranean-spring catfish from Kerala, India. *Ichthyology Research*. 58: 161-165. 2011.
  90. Lassance, J-M., Groot, A T., Marjorie, L., Antony, B., Borgwardt, C., Hedenström, E., Heckel, D. and Löfstedt, C. 2010. Allelic variation in a *fatty-acyl reductase* Causes Pheromone Divergence in European Corn borer races. *Nature* 466, 486-489.
  91. Pius K. Jacob. Spawning Response of *Anabas testudineus* (Bloch, 1792) to Ovaprim. *Journal of Inland Fisheries Society of India*, 2010, 42(2): 64-67.
  92. Mathew E.V., A. V. Sudhikumar & P. A. Sebastian. 2014. Vertical Stratification of Spiders in Kuttanad Rice Agroecosystem, Kerala. *Journal of Biological Control*. 28(2): 62-67.
  93. Jilna Alex N. and John Thomas K. Influence of Genetic Relatedness and Shoal Size on Shoaling Preferences in Juvenile *Puntius sarana subnasutus*. *Indian Journal of Experimental Biology*.
  94. John Thomas. Factors influencing in *Puntius sarana subnasustus*. *Current Science*, 100 (5), 633-634.
  95. Moncey Vincent et al. Land use changes, Hydrological Disturbances, Fish Ecology and Mosquito population outbursts *Advances in Environmental research* (2011)63-
  96. Moncey Vincent et al. A preliminary survey on the subterranean piscine diversity in Thrisur district, Kerala, India. *Recent advances in biodiversity of India*(2012)337-341
  97. Moncey Vincent et al. Habitat association and foraging patterns of two small cyprinid fish species ; Chela-Dadiburjori Menon and Horadandia Atukorali Deraniyagala *Recent advances in biodiversity of India*(2012)357-359
  98. Antony, B et al. Allelic variation in a fatty-acyl reductase gene causes divergence in moth sex pheromones *Nature Letters*, 466, 486-489



99. Leyon Varghese et al. Targeting Intracellular oncoproteins with antibody therapy or vaccination *Sci. Transl. Med.*(2011)85-99
100. Leyon Varghese et al. Engineering the first Chimeric Antibody in targeting Intracellular PRL-3-Oncoprotein for cancer Therapy in Mice *Oncotarget*(2012)158-167
101. Moncey Vincent -Seasonal variation in behavioural response of a cyprinid fish to a visual signaling trait-*Scientia* (2012)-1028-1030
102. Tessa Paul. P. and Sreekumar, R., “Desmid *Euastrum* Ehrenberg from the Kole lands of Thrissur (part of Vembanad - Kol, Ramsar Site), Kerala”, *Annals of Plant Sciences*, 2(8) 2013, 272-277.
103. Tessa Paul. P. and Sreekumar, R., “Assessment on Hydrographic Parameters and Phytoplankton Abundance of ThrissurKole Lands (Part of Vembanad - Kol, Ramsar Site), Kerala”, *International Journal of Advanced Life Sciences*, 2013, 6(5), 583-593.
104. Tessa Paul. P. and Sreekumar, R., Systematic account of *Scenedesmus* Meyen (Chlorophyceae, Chlorococcales) from the Kol wetlands of Thrissur, Kerala, *Journal of Indian Botanical Society*,91(1-3), 2012, 146-152.
105. Tessa Paul. P. and Shubha, Algal diversity of coconut husk retting area in Thalikulam backwaters, Kerala. *Indian Hydrobiology*, Vol. 13, No: 2, pp. 125-129, 2011.
106. Saritha, M.K. and Tessa Paul. P., Mangroves of Poyya backwaters of Thrissur district, Kerala, India. *J. Mar. Biol. Ass. India*, 53(1): 8-13, 2011.
107. Tessa Paul. P. and Sreekumar, R., “Desmid *Pleurotaenium* Nageli from the Kole Lands of Thrissur (Part of Vembanad – Kol, Ramsar Site), Kerala, India”, *International Journal of current research*, 2011, 3(12),59-63.
108. Rincy Joseph and Tessa Paul. P., Water quality and pollution status of Chalakudy River at Kathikudam, Thrissur District, Kerala, India. *Nature, Environment and Pollution Technology*, 9(1): 113–118, 2010.
109. Josheena Jose. The impact of Agrarian distress. *Research lines*. Vol 4, No.1-B June – 2011
110. Josheena Jose. A Study on Impact of Globalization on HR Practices in India. *Poseidon* (2013) 64-70
111. Josheena Jose. Study on Impact of Leverage on Profitability of Kerala State Enterprises Ltd *Global Research Review* (2013) 1-8
112. Josheena Jose & Dr. Vasantha Kumari P Published a paper entitled “Impact of Foreign Direct Investment in Indian Economy” in the journal *Business Education in India: issues and Imperatives*, 2012, ISBN 978-93-81441-27-5, page 68 – 81
113. Josheena Jose. SHGS- A key stone of micro financing in the community development of Kerala Micro finance 26-28
114. Josheena Jose. Study on the Implication of Financial Innovation for the Poorest of Poor in the Rural Area *Research lines* (2010) pp 183-190
115. Josheena Jose and Geetha G Nair. Problems and Prospects of Green Marketing in India” in the journal *Research Scholar* (2013) Vol. 3, pp 230-238
116. Josheena Jose "Study on analysis of instability and growth rate of food crops in Kerala" *Adarsh Research Cell Bengaluru* Volume III 2014 ISBN 978-163102078-0
117. Philo Francis and Shine Paul A study on the use of E – banking service in Thrissur, in the journal *Organizational Management* (ISSN 0975 – 6997), 2012, Vol.27, No. 3, pp 38-41
118. Shine Paul An analysis of Kerala Tourism Industry *Research Explorer* (2013) 59-60
119. Jancy Davy and Shine Paul. An Analysis of Food Inflation in India. *VISTAS* 2012, Vol.1, No. 1, pp 29-33.



120. Philo Francis and Shine Paul. The impact of global economic crisis in Indian banking sector” VISTAS (ISSN 2319 -5770), 2012, Vol.1, No. 1, 34-38.
121. Shine Paul. The impact of Global Recession on the NRIs of Kerala -Rays, A Multidisciplinary Research Journal(2011-47-52
122. Tom Jacob, Foreign Portfolio Investment and its impact in Indian capital market, Journal of Commerce and Management Thoughts, Vol. IV, Jan-March 2013.
123. Tom Jacob, Foreign Portfolio Investment: A post liberalization analysis, Acumen, June 2013, pp. 35-49.
124. Tom Jacob, Impact of IFRS on Indian insurance industry, IRC’s International Journal of Multidisciplinary research in Social and Management Sciences, July – Sept 2013.
125. Tom Jacob, Islamic banking: Prospects and Challenges in India, Mirror, Vol.1, No.1, Sept 2011.
126. Arun Balakrishnan M.B. , T. Joseph A study on the role of financial literacy and credit counseling centers Journal of Management and Science 51-56
127. Arun Balakrishnan M.B. , T. Joseph A Study on customer satisfaction of selected banks in Chennai Journal of Management and Science (2012) 117-120.
128. Arun Balakrishnan M.B. , G.S. Chander A Conceptual Study on Social Responsibilities of Indian Banking Sector Explorations (2011) 184-189.
129. Arun Balakrishnan M.B. A Study on customer preferences and its impact on the wage rate of Flipkart-A Study with special reference to Chennai city. Journal name: Vistas, 2014 Vol. 3, No:1. 23-235.
130. Arun Balakrishnan, T. Joseph A Study on Customer Satisfaction of Selected Banks in Chennai Journal of Management and Science (2012) 117-127.
131. Arun Balakrishnan, T. Joseph A Study on the role of Financial Literacy and Credit Councelling Centers Journal of Management and Science (2012) 51-54.
132. Arun Balakrishnan, T. Joseph Corporate Social Responsibility Revitalizing Global Business Issues, Approaches and Strategies 892-895.
133. Franco T. Francis, “Effectiveness of Brain Based Learning Strategy on Achievement in Economics of Higher Secondary School Students”, *Innovative Thoughts, International Research Journal*, 2013,1(1). 145-149.
134. Franco T. Francis, “Brain Based Approaches to Learning and Teacher Education Programmes”, *Cognitive Discourses, International Multidisciplinary Journal*, 2013,1(2). 567-571.
135. EM Thomas, “Survival of Destitutes in the era of globalization through Ashraya in “Globalisation and Rural Livelihoods”, P S Sujith Kumar(ed), Excel India Publishers New Delhi, 2013, ISBN: 97 8938 2880 172.
136. Franco T. Francis, Conflux, Journal of Education, “Does Male and Female Higher Secondary School Students Differ in Emotional Regulation Strategies?”, Volume 1, Issue 3, August 2013. 981-985.
137. Franco T. Francis, Education Philosophy, Sociology and Economics, “1) .Education Under Colonial Rule, 2). Education in Independent India”, 2013, ISBN: 978-81-927973-1-1.
138. EM Thomas, “Human rights – A prerequisite for inclusive growth and sustainability”; Research Scholar, vol. II No.1 B March 2012, ISSN: 2249-6696.
139. EM Thomas, “Millennium Development Goals, Mahatma Gandhi National Rural Employment Act and the Poor Women in India – A case study”; Global Research Review, vol.II.No.11 A, 2012, ISSN: 2250-2521.
140. EM Thomas, “The Policies of India’s Movement to Free Market Economy”, - Misbah, Niche of Knowledge. January to June Book 7 vol.7, 2012, ISSN: 0976-2523.



141. EM Thomas, "Decentralised Planning in Kerala and the Impact of Devolution of Power, Functions and Institutions of LSGIs on the Transferred Government Officials", ALFOMINE vol.2.November 2012, ISSN: 22 50-3870.
142. EM Thomas, "MNREGA and Rural Unemployment in India-Case study of a village panchayat in Kerala." .Man and Society, 2011, ISSN: 2231-6698.
143. EM Thomas, "The Problem of poverty in the Era of Globalisation"; in "Development vsDeprivation"; M K saralamma et.al(ed). SonaliPublishers New Delhi, 2011, ISBN: 9788 184 113303.
144. EM Thomas, "Theories of Decentralised Planning – Relevance and Practice, in the context of Kerala Economy", Research scholar, vol 1. No.11 A, 2011, ISSN: 2250-2521.
145. EM Thomas, "Financial inclusion of the bottom quintile of Indian population; Challenges and opportunities"; Global Research Review, vol.1 No.1, 2011, ISSN: 2250-2521.
146. KA Stephenson, "Household handicraft Labour in Kerala; Issues and Perspectives", Journal of Labour and Development, Vol. 16-17, 2010.
147. E.M.Thomas & C.J Unni- Industrial growth through clusters-Industrial growth through clusters -2010, 1-6.
148. George Kolengaden- Industrial clusters in Kerala – Evolution, Interventions and Social responsibility Industrial growth through clusters -2010, 174-183.
149. Franco T. Francis"Impact of Mahatma Gandhi NREGS on Poverty-Trap: A Theoretical Analysis" International Journal of Rural Development, BARD, Comilla, Bangladesh, Vol. 38, No: 2, ISSN 1019-0341, pages 27 – 44, 2014.
150. K.J Vargheese, Teacher in the ICT Enabled classroom, *Scholastic International Research Journal of Language and Literature*, 2010,1(2).
151. K.J Vargheese, Mobile Assisted Language Learning Vol.1, (3), ELT-Vistas – Published by District Center for English, Thrissur, 2010,
152. K.J Vargheese, Impact of Electronic communication on Linguistic Revolution: A Break Through, Vol.1, Issue 1, ELT-Vistas Published by District Center for English, Thrissur, 2009.
153. Dr. Vargheese K.J. International- Multimedia: An Effective Tool for Honing the Language Skills IMRF journal 2014 ISSN-2347-3479 and ISBN-978-93-84124-19-9- Vol. 2, issue1.
154. Dr. K.J. Vargheese. Rationale for the use of ICT in ELT and its Potentials ELTIF, Vol. 2. April-June 2014.
155. Syam Sudhakar South Indian Poetry,,: New writing, New Thinking Commonwealth Review173-179.
156. Syam Sudhakar. The Beats Go to the Movies: Exploring Alternative Cinema and Subculture Littcrit: An Indian Response to Literature. (2013) 196-200.
157. Syam Sudhakar Vicki Viidikas. On the Road Asian Journal of Literature, Culture and Society.
158. K.V. Cybil (2013) 'Dalit Humanism, Literature and Technologies of Deification' Economic and Political Weekly XLVIII (51).
159. K.V. Cybil (2012) 'Haunting and the Republic: Spectrology of a Custodial Death'. J Polity and Society, 4 (1) p. 7-27.
160. K.V. Cybil (2011) 'Revolution: Social or Political? Perspectives of Naxilism and Satyashodak Marxism Compared'. Indian J Political Science, 72 (3) p..... (not given)
161. Cybil K.V. A Dalit Reason for Character inheritance and re-emergence Economics and Political Weekly (2013). 67-70.
162. Dr. K V Cybil National Homage to a critic of Marxist – Positive History Economic and Political weekly, Vol. XLIX, No. 25, page- 25-26, June 21 2014.



163. K.M Jayakrishnan. Kavitha se lambikavitha nuenatamamoupabhogikkriyakalapomkesutrathmakvani' in the 51th issue of 'Sapeksh' vinodkumarsukla , special issue .published from Chattisgarh. June 2010, pp. 325-334.
164. C. V. Sudheer, Malayalm Blogs and Keralite People Language: Innovative study methods. 21, Issue No 1 of 'Bhoomi Malayalam'. 75-105.
165. C V Sudheer, Ideological Perspective of Foreign Language Influence" in the magazine "Sahithyalokam (May – June 2011)" published by Kerala Sahithya Academy.
166. K. Chandran Effect of different types of goal setting on Performance Journal of Phy. Education, Recreation, and Sports in Science and Technology, 2010,1,(1)1-15
167. Arvinda B.P. (2013) Investigations of selected psychological variables as predictors of pole vault performance. Int. J. Adv. Res. 1 (2), 51-52.
168. Anilkumar N. (2012) Comparative study of Selected Physical Components of Male Boxers, Wrestlers and Judokas. International J. Physical Education, Fitness and Sports, 2 (4), 46-48.
169. Sony John T, 'The Hindu' daily on implicit learning entitled 'The best way to learn' on 6th February, 2012.
170. Arabinda B.P, Madhavan N Selected anthropometric variables as predictors of pole vault performance Voice of sports(2009) 39-43.
171. Aravinda B.P, Vivekanandhan T Effect of transcendental meditation on jump service of intervarsity men volley ball players Journal of physical education and sports sciences(2009) 12-15.
172. Vivekanandhan T. (2010) Multiview video modeling on skill acquisition and performance of jump service in volleyball. Voice of Sports, 5 (1) 68-72.
173. Vivekanandhan T. (2011) Postural deviations among rural, urban and coastal area studies. Voice of Sports, 6 (1) 63-69.
174. Dr. Vivekanandan Effect of video modeling on learning jump service in Volley ball- Research Journal in Physical Education and Sports (2010), 2, Issue, 1: 15-20.
175. Vivekanandhan T Varied Feedback Techniques on learning ability and Performance in volleyball among Senior Secondary School Boys (2009) Voice of Sports (2009) 7-13.

#### **3.4.4 Provide details (if any) of research awards received by the faculty**

- Dr. Sudhikumar A.V. is awarded the Young Scientist Award from SERB-DST.
- Dr. K.V. Cybil was awarded general fellowship of the Indian Council for Social Science Research for 2012-2014. He was also awarded the Nehru Museum and Library (New Delhi) Junior Fellowship for the years 2013-2015.
- Fr Jolly Andrews, Dept. of Physics won the Best Paper Presentation Award in Physical Science in the World Congress on Research and Innovations WCR12K, held St. Joseph's College, Irinjalakuda.
- Ms. Chitra Sebastian, Department of English was selected as a participant of the "Youth Exchange Project with Asia- Oceania and North America (Kizuna Bond) Project from 3<sup>rd</sup> to 13<sup>th</sup> of March 2014 in Tokyo and Fukushima in Japan conducted by Japan International Cooperation Center.
- Ms. Geethika K., M. Sc. Zoology student, secured "Best Researcher Award" in PG section in National Conference on Modern Trends in Zoological Research.
- Ms. Drisya Mohan O.M., M. Sc. Zoology student secured "Best Project Award" in the competition of Millennium Zoology.



### **Recognition received by the faculty from reputed professional bodies and agencies, nationally and internationally**

- Dr. C O Joshi has been nominated as the Member of Syndicate, University of Calicut.
- Fr. Dr. T.M. Jose, Prof. K.O. Francis and Prof. Sebastian are Members of Senate of the University of Calicut.
- Twenty nine of the faculty are members of different UG and PG Board of Studies.
- Dr. K T Thomas, Dr V. D. John, and Dr S. Sreekumar, won M.M. Ghani award for Best Teacher of University of Calicut in Science discipline, by considering their research and other contributions.
- Prof. E J Vincent was elected as the Member of the Social Welfare Committee of XII Five Year Plan formed by the Irinjalakuda Municipality. He was also elected to the University of Calicut Senate (2011-2012).
- A good number of teachers are life members of research/academic bodies like Indian Association of Physics Teachers, Astronomical Society of India, Academy of Physics Teachers, Indian Physics Association, Limnological Association of Kerala, Indian Association of Aquatic Biologists, Krishnamurthy Institute of Agrolgy, Marine Biological Association of India, Society for Fishery Technologists, International Society of Sports Psychology.

### **Incentives given to faculty for receiving state, national and international recognitions for research contributions**

- The Teachers' Club of the College organizes special meetings to honor the faculty who receive special recognitions from national/international agencies, thrice in every year.
- A cash award is given every year by the College for the Best Research Paper published from among the publications of the faculty in reputed journal with high impact factor.

## **3.5 Consultancy**

### **3.5.1 Give details of the systems and strategies for establishing institute-industry interface?**

The College encourages the faculty to engage in consultancy services that would benefit the local community, not sacrificing the academic activities. Broad areas of the consultancy services are mainly related to science Departments.

<b>Department</b>	<b>Industry</b>
Physics	Light Logics Laser Technologies
Chemistry	Carborandum Universal Limited, Soap Industries (Chandrika Soaps)
Zoology	Fish farms, Forest Department and Poultry Farms
Geology	Geological and Mining Department, Kinfra Park
Commerce	Kerala Solvent Extractions, KPL Oil Mills, Kerala Cattle Feeds
Botany	Nursery Industrialists
History	Archaeological Department

Even though the College has not yet entered into a formal agreement of consultancy with various industrialists, it keeps good rapport with the industries in the neighbourhood and renders the expertise of the faculty for their needs which may not be remunerative. The industry and Institution interface is promoted through projects and technical support requested by them. The College invites industrialists and technical experts for interface with students by organizing seminars. In some of the Departments industrial visits are compulsory as part of their curriculum. They organize visits to industrial centers to facilitate experimental learning. The Entrepreneurship Club organizes various programmes



that gives insight into demands of the industry and also the skills to be achieved by the students to meet the demands. In 2013, the Club and Innoaction India jointly organized a half day seminar on the topic Innovation Based Entrepreneurship. The Resource Person was Dr. T J James, Director, Innoaction India.

### **3.5.2 What is the stated policy of the institution to promote consultancy? How is the available expertise advocated and publicized?**

Free consultancy services are rendered mainly to beneficiaries like Irinjalakuda Municipality, the surrounding Panchayaths, local schools and its teachers. The results of some of the extension activities like pollution studies and water & soil analysis etc are handed over to Governmental organizations for taking remedial measures. The society outside the campus benefits from the consultancy services and are encouraged since they offer a platform for the faculty to put their research findings in practice. However, the Institution gives prime concern to research and academic transaction to the students. Therefore, its policy is to engage in the consultancy services without disturbing the prime duty.

- The information on the consultancy services and available expertise of the faculty of the College reach the beneficiaries through the following means,
  - Profile of teachers with their academic qualification and field of expertise is publicized in the College Website and Handbook.
  - Major research findings of the faculty are published in media (Newspapers, TV channels)
  - Publicizing the expertise available by presenting research papers in national and international conferences
  - Some of the faculty (Dr. Sreekumar, Prof. Sebastian Joseph, Dr. A.V. George) give expert opinions in TV channel discussions/print media.
  - On the Initiation Day meetings the Principal talks about the available consultancy services such as Water Analysis Lab, Biodiversity Club etc for the information of the parents.
  - The information about consultancy services is passed through academic Peers, previous beneficiaries and the students of the Institution.

### **3.5.3 How does the institution encourage the staff to utilize their expertise and available facilities for consultancy services?**

- The faculty are encouraged to make maximum utilization of the infrastructure facilities for consultancy services. The library services, computer facilities, internet connectivity, laboratory equipment, computer enabled facilities, etc are utilized by the faculty for services they involve with. Analysis of water purity, experimental works for the waste recycling of Carborandum Company, fish ponds for studies related to Fisheries as special subject, etc are entertained.
- The College allows experiments related with consultancy services to be conducted in the labs without any liability to the College.
- Most of the services do not yield monetary benefits. However, if at all any income is generated through consultancy, it is utilized for the modification of the lab facilities.
- The faculty who do outstanding consultancy services are encouraged and congratulated in staff meetings.
- Some of the lab facilities extended for consultancy related purposes are listed below:





Department	Facilities used
Zoology	Stereo Zoom Microscope
Physics	Electromagnetic Research Lab
Geology and Environment Science	Laboratories (Water Testing Lab, GIS Lab)
Botany	Trinocular Research Microscope with Camera Attachment and Image Analyzing Software
Chemistry	Fuel Cell, IR, UV, Roto Evaporator

Apart from the consultancy services, the faculty also renders their expertise in certain paid and unpaid activities like preparing question papers, designing new programmes, modifying syllabus and they act as subject experts in interview panels. They also serve as judges in interschool and intercollegiate competitions. The technical expertise of the faculty of Department of Physical Education is very much utilized for conducting various sports competitions at the State and District levels by many organizers.

### 3.5.4 List the broad areas and major consultancy services provided by the institution and the revenue generated during the last four years.

Department	Industry/organization/ institution	Faculty
Chemistry	Carborundum Universal Limited (Safe disposal of isopropyl, seeking proposals consultation in removing iron impurities from carborundum fine powder sample having 0.1 to 1% M.I value to <0.02%)	Dr. V. T. Joy
Physical Education	Yoga classes to school students	Dr. B. P. Aravinda
Physical Education	Cricket consultancy to Kerala Cricket Association in coaching players and coaches	Prof. Sony John T
Physical Education	Cricket academy for school students	Prof. Sony John T
History	Documentation of the History of Holy Shrine Church, Mapranam	Dr. K. Chandran Dr. K.T. Thomas
IQAC	Consultancy provided to Newman College, Devamatha College, Vimala College etc on the preparation of self study report for re-accreditation by NAAC	Dr. Davis Antony
Zoology	Forest Department and Kerala Agriculture University. B. Sc. and M. Sc. Project guidance for students from other Universities and Colleges.	Dr. Sudhikumar A. V.
Botany	Taxonomic Identification of Plants	Prof. Joshy K Simon
Botany	Algae Identification	Dr. Tessy Paul
Statistics	Research students from neighbouring colleges and institutions have approached the Department of Statistics for consultation regarding statistical analysis of the data.	Dr. Davis Antony M
Physics	M Sc MPhil & INSPIRE Project guidance for students from other colleges	Dr. V. P. Joseph
Chemistry	M.Sc. Project guidance for students from neighbouring colleges	Dr. Mathew Paul Dr. V. T. Joy



Geology and Environmental Science	Student project of Bharathidasan University, Environmental Impact Analysis for the benefit of public and various NGOs	Dr. S. Sreekumar Dr. R.V. Rajan
	Request from Municipal Court for doing Geological Investigation in a Local Body	Dr. A.V. George
	Report on collapse of a newly built house at Aloor with reference to the request from Bajaj Alliance Insurance Company	
	Geological Investigations of the pond site (4.5 acres) of KINFRA Park, Koratty.	
Malayalam	Malayalam Certificate Course for NRKs and Non-Malayalees of Coimbatore	Prof. Sebastian Joseph

Even though majority of the services rendered by the faculty are unpaid, an amount of Rs.6,50,000/- is generated by the Departments of Physics, Chemistry and BPE during last four years.

**3.5.5 What is the policy of the institution in sharing the income generated through consultancy (staff involved: Institution) and its use for institutional development?**

The faculty are given complete freedom for the utilization of whatever income they generated through consultancy services. However, it is mainly spent for the maintenance and upgradation of laboratory equipment, Departmental infrastructure facilities and acquiring additional library resources.

**3.6 Institutional Social Responsibility (ISR) and Extension Activities**

**3.6.1. How does the institution promote institution neighbourhood community network and student engagement, contributing to good citizenship, service orientation and holistic development of students?**

As a part of the social responsibility and dedication to uplift the community, the College organizes elaborate efforts through extension activities. The Institution promotes its neighbourhood community network by organizing extension programmes at three different levels,

- o Institution as a whole
- o Department/Club wise
- o Individual
- The College always works together as a team to attain the Mission statement which aims at moulding the youth as intellectually competent, psychologically integrated and morally upright social beings.
- The students are trained and given enough opportunities to involve in socially relevant issues that help them grow as good citizens.
- Some Departments celebrate, Onam, Christmas and other festivals with inmates of orphanages or old age homes in the neighbourhood. The extension programmes organized by the Department of Sociology inculcate service mentality and commitment to the society in the minds of students. They have organized street plays and rallies, on the themes addiction to drugs and liquors. Visits to tribal areas and slums expose students to the miserable aspects of life.
- There are several extension programmes organized by different bodies like NCC, NSS, CSA, Curricular and Co-curricular Clubs, Alumnae, PTA, etc.
- The annual calendar showing the activities planned throughout the year is prepared by the concerned at the commencement of the academic year itself in consultation with the Principal.



- A committee is constituted to coordinate the extension activities organized by the various bodies. Every year the College organizes various orientation programmes for enrolling students in the extension activities that aim at their holistic development. The good rapport maintained with the Local Bodies and community creates a platform to organize various extension programmes.

### **3.6.2 What is the institutional mechanism to track students' involvement in various social movements / activities which promote citizenship role?**

The Institution keeps a systematic mechanism to track students' involvement in social activities which are organized at different platforms.

- In the beginning of each academic year, the Principal, in consultation with the faculty, assigns a coordinator to all bodies, NCC, CSA, CSS and other Co-curricular Clubs that organize extension activities.
- On the Initiation Day meeting, the Principal briefly introduces various curricular and co-curricular bodies which organize extension programmes. Moreover, the coordinators of NSS, NCC and CSA also talk about the objectives and activities of each body. Students are motivated to join the activities of at least one of the curricular or co-curricular bodies.
- Orientation talks are arranged by NCC cadets, NSS volunteers and CSA to attract freshers.
- The extension programmes organized by these units are communicated to all students and the faculty through brochures and displays on the respective Notice Boards.
- Students who participate in a programme of social relevance have to get prior permission from the class teacher.
- Coordinators keep registers and attendance records of students' involvement in NCC parades, social activities, in one-day works and seven-day camps, organized by the NSS, in Value Education classes and in other activities organized by CSA, etc.
- Students are given duty leave on these days after the submission of attendance records from the concerned organizers. Students submit these documents to the class teacher or at the College Office as an evidence of their involvement in extension programmes.
- The curriculum of the UG programme designed involves 30 days of CSS to promote social commitment and citizenship role of students. The class teachers keep a record of these activities and issue certificates of participation at the completion of the programme.

### **3.6.3. How does the institution solicit stakeholder perception on the overall performance and quality of the institution?**

The performance and quality of the Institution is solicited from stakeholders through different ways. Feedbacks in prescribed format are collected from following levels

- Outgoing students
- Parents and Guardians in PTA meetings
- Institution level and Department level Alumni meetings
- Employers

Moreover, the Principal gets oral feedbacks from a cross section of all the above levels in his informal talks with them. Parents are always welcome to discuss the welfare of the Institution. Their suggestions are positively considered for improving the quality and performance of the Institution. The creative criticism and oral feedback are obtained from academic peers and teachers of other colleges, when they visit the College in connection with academic meetings and seminars. These feedbacks on the performance of the Institution are also treated constructively. The faculty and the Management regularly keep



in touch with students, parents, Local Bodies, educationalists, social workers, and politicians. The Institution gets valuable suggestions through interactions with them and at different platforms discussions are held to enhance the quality of education imparted.

**3.6.4. How does the institution plan and organize its extension and outreach programmes? Providing the budgetary details for last four years, list the major extension and outreach programmes and their impact on the overall development of students.**

The Institution has constituted an Extension Cell for monitoring the extension programmes with the coordinators of NSS, NCC, CSA and some senior faculty as members. The Cell identifies and chalks out the extension activities to be carried out, during discussions with members of Local Bodies. The activities are conducted under the leadership of the concerned coordinators. The Departmental extension programmes are finalized in the Departmental meetings with student representatives and are communicated to the Extension

**List of the major extension and outreach programmes organized at different levels.**

➤ **Institutional Level**

- **Organ Donation Campaign in collaboration with Kidney Federation of India :** Agreement in this regard was signed by around 1000 students/teachers of the College and handed over to Kidney Foundation of India in 2013.
- **Blood Detection camp:** Every year the College conducts Blood detection camp jointly with IMA. Nearly 500 persons avail of the benefit of this programme.
- **IT Exhibition:** The College jointly with Bharathiyar University Off Campus Centre conducts IT exhibition every year. Approximately 3500 spectators consisting of students from neighbouring schools and the public attend the programme.
- **History Exhibition:** Kerala History Association and the College jointly organized Kerala History Exhibition in 2013. Around 500 people from neighbouring educational institutions and the public came to witness it.
- **BEACON - The National Level Young Talent Fest:** College together with Federal Bank Ltd conducted BEACON in 2012. Students from different colleges from all over India participated in the programme.
- **Traffic Awareness Programme:** In 2010, the College conducted a traffic awareness programmes for the benefit of students and staff jointly with Honda Limited.
- **College infrastructural facilities:** The College extends its infrastructural facilities like play ground, football court, athletic stadium, etc to outside institutions and agencies for conducting various sports and games meets. A nominal fee is charged for this service which is waved for charitable institutions and trusts.

➤ **Department Level/ Individual Programmes**

The following are some of the **common extension activities** undertaken by all Departments. The faculty act as

- Question paper setters of other universities' and PSC examinations.
- Subject experts in the panel of selection committee for the appointment of the faculty in various colleges and in the PSC interviews
- Subject experts in the committees constituted for approval as Research Centres.
- Resource persons in the national and international conferences and workshops.
- Judges for presentation contests and various competitions.
- Trainers for NET/JRF examinations conducted by UGC/CSIR.
- Chair persons in paper presentation sessions.
- Quiz masters in different intercollegiate quiz competitions.
- Experts in preparing the Syllabi for different universities.



- Resource persons in value education classes.

The following are some of the **special extension programmes** undertaken by various Departments.

#### **Department of BPE**

- Organized a programme for the overall development of the differently abled, mentally challenged students of Pratheeksha Bhavan (A Special School at Irinjalakuda for mentally challenged) at the request of the school authorities which included many sports activities. Around 25 of the students are involved in this charity movement.
- All Kerala State Level Sports for the differently abled under the auspicious of LIONS Club, Thrissur. Around 50 of the students render their expertise in the conduct of Sports and Games Meet with more than 600 contestants.
- Extending technical support for all sports and games competitions organized in the College playgrounds by various bodies every year, like Government and semi Government Departments and neighbouring schools, LSGs and communities, .
- Extending fitness training to students and the public seeking entry into police & military forces for three months before they attend for physical test and other trials.
- Service extended to the Chief Minister's Fitness Programme launched state wide in schools in the year 2010-11 & 2011-12. Six students were sent to each school and five schools participated in the programme.
- The Physical fitness of the students are motivated by conducting Intramural competitions every year, exclusively organized and managed by the BPE students, promote the physical well being of the student fraternity..
- The Department has started a Cricket Academy which trains the aspiring cricketers in the neighbouring institutions and community; regular and summer coaching camps are also conducted. So far around 220 students have been trained.
- Three Physical Fitness Centers are available for the students, faculty, staff and the local community. Situated in the Main Campus, Men's Hostel and Department of BPE, the Centre's service is free of cost for students and staff. A nominal fee is charged from the local community.

#### **Department of Geology and Environmental Science:**

- Leadership given for NGOs, and Panchayaths for the conduct of water conservation programmes, water quality analysis and environmental consciousness programmes (in association with Padiyur Grama Panchayath and NIEDS).
- Students' projects related to solid waste disposal in the Municipality, water quality analysis and conducted and the findings reported to LSG.
- Major studies carried out on natural disaster in the hill ranges of Kozhikode; Recommendations forwarded to District Collector and LSG for further action.
- Hazard Zonation Map, indicating vulnerable areas to landslides submitted to LSG.
- The Department conducts every year exhibition of Geological Museum to inculcate and spread awareness about specimens collected by them.
- Under the aegis of Thrissur District Science Association, a Quiz competition on earth science for school students.
- The faculty of the Department is regular resource persons for Orientation and Refreshers Courses conducted by Academic Staff Colleges of various universities.
- The Faculty are involved in writing popular articles, participating in discussions in All India Radio and TV channels on various public issues.

#### **Department of Physics:**

- Inter collegiate presentation contest for UG students is conducted every year to motivate talented students.



- Visit to old age homes and poor homes.
- The research facilities of the Department are extended to PG, INSPIRE and M.Phil students of other institutions by giving project guidance.
- Science Talent Enhancement Programme jointly with EKN Research Centre for high school students of Irinjalakuda Educational District.
- Open House – Science Exhibition for higher secondary students of the neighbouring institutions is conducted every year. Nearly 250 students attend the programme.

#### **Department of Economics:**

- A study of Eriyad Panchayath on nature and type of work undertaken under MNREGP (Mahatma Gandhi National Rural Employment Guarantee Programme) in 2012.
- A study of Kattor Grama Panchayath on people's participation in Gramasabha in 2011
- A study of Nemmanikkara Panchayath on the functioning of ASHA (Accredited Social Health Activist) in 2012.
- Noon-Meal programme in selected schools of Nattika Grama Panchayath in 2011.
- A study on the working of the ICDS (Integrated Child Development Scheme).
- The faculty are engaged in writing books and popular articles, participating in discussions in All India Radio and TV channels on public issues.
- Surveys and research works on socially relevant schemes like Mid-day Meals, Women Empowerment, ASHA, etc.

#### **Department of Botany:**

- Trekking to Karanthode Forest Area, Vazhachal Forest Division, Kerala for the environmental awareness.
- The members also help the LSG in the discussions of the project works of the Municipality.
- Identification of algae and plants in biodiversity studies.

#### **Department of History:**

- The faculty extend their expertise in settling archaeological issues

#### **Department of Language – Malayalam, Hindi, Sanskrit:**

- They act as judge in different elocution, speech, poem recitation and essay writing competitions, and in Arts festivals in the University and other institutions.

#### **Department of Zoology:**

- The Department conducts exhibition of Zoological Museum to inculcate and spread awareness about the rare species.
- Dr. Sudhikumar A V is **the only Indian** in the sixteen-member committee of Encyclopedia of Life Fellowship Program instituted by Smithsonian Institution of USA, that creates electronic database of all organisms present in earth.

#### **Department of Mathematics and Statistics:**

- The Department extends their expertise for the computation and interpretation of the data collected by PG students and researchers as a part of their case studies.
- Visits to old age and poor homes.

#### **Department of Social Work**

- Visits to orphanages and old age homes -
  - Dhivya Hrudhayasram, Chennaipaara, Peechi, Thrissur.
  - Home for the abandoned and the destitute, Christ Villa, Thrissur.
  - Old Age Home, Pullazhi, Thrissur.
  - St. Joseph Mental Health Home, Pullazhi.
  - Christeena Adoption Centre, Pullazi, Thrissur.



#### Outreach Programmes:

- Two-day Skill Development Programme for the Social Work Students at Rajagiri Institute of Social Science, Kalamassery, in collaboration with Rajagiri Outreach.
- The Department jointly with ICDS Project Government of Kerala organized Community Awareness Programmes. Students too engage classes on topics like time management, waste management, alcoholism.
- Children Summer Camp - Kinginikootam 2014: For children from Irinjalakuda Municipality (Age 6 to 16). Number of participants: 75.
- NORMA-2014: Trainer's Training Programme (TOT) organized by BSW Students, Christ College and MSW students, St. Joseph College, Irinjalakuda. Number of participants: 34.
- Creative 'I' - 2014: Skill Development Programme on Creativity and Innovation for higher secondary students. Number of Participants:48.
- Sahrudhaya Camp - Two day Children's Camp at Adupputty, Kunnamkulam for the school students under 16.
- Kalikkootam - 2014 Children's Camp at Kannadi Village, Palakkad Number of Participants: 120.
- Community Awareness Programme at Thrissur in connection with Thrissur Pooram, the students distributed IEC materials and pamphlets on Child Labour to the crowd.
- Street Play performance on Road Safety in Irinjalakuda Municipality.
- Community Living Camp "BHOOMIKA- 2013" at Attapadi, Palakkad (Ten-day rural camp).
- Community Living Camp "POLIKA – 2014" in association with Noolpuzha Grama Panchayath, Noolpuzha, Wayanad.
- Face-2014 (Interdepartmental Face Painting Competition based on the theme War and Peace.
- AIDS Day awareness rally and Open Wall Painting in collaboration with Taluk Hospital, Irinjalakuda.
- Heart Beats-2014 (Handmade Christmas Card Fest) Exhibition cum sale of greeting cards prepared by the students.

#### Department of Psychology

- Counselling facility for the students who face academic, social, and emotional challenges.
- Visit to charitable institutions.
- Celebration of World Mental Health Day.

#### National Service Scheme

- The NSS volunteers regularly take part in the pain and palliative care activities at Alpha Pain Clinic at Thrissur.
- Volunteers give dance practice classes for mentally and physically challenged children of Pratheeksha Bhavan and encourage them for stage performances.
- Conduct of Blood Donation Campaign jointly with Lions Club of Irinjalakuda, and other organizations.
- Conducted Pencil Drawing Competition with the theme Ill effects of Plastic Pollution.
- Organize Blood Detection Camps and maintain a list of Blood Donors. Students are ready to donate blood for patients of neighbouring hospitals on request. On an average, every year fifty cases of blood donations recorded.
- Organize ten one-day works and one seven-day camps every year.
- Whenever there is any natural calamity/catastrophe the volunteers raise Relief Fund. Contribution to Chief Minister's Relief Fund for Uttarkhand victims - Rs.20000/- .



- Celebrate NSS Day every year. In 2013, the slogan of the Day: “Go Green Be Clean”.
- Initiate vegetable cultivation in the campus.
- As part of public health programme, affixed mesh at the vents of the toilet exhausts at the Chavara colony for 100 houses in 2013
- Conduct Prathiba – Intercollegiate Light music and Speech Competition every year.
- Initiate waste management activities in the campus (segregation and processing of bio degradable and non degradable wastes).
- Manufacture of conference materials, screen printed files, folders, pens, cloth bags, etc using degradable materials and ornaments and greeting cards using paper.
- Extend financial support to help differently abled children and those affected by autism.

#### **National Cadet Corps**

- Visit to old age homes and supply essentials to the inmates.
- Conducted Blood Donation Camp in 2013 in association with Janakeeya Samithy (Arogyam) at IMA Blood Bank Complex & Research Center, Thrissur, in which around 59 of the students donated blood.
- Conducted an Awareness Rally and Street Play depicting the Atrocities against Children and Women. Around 120 students participated.
- Rendered voluntary help to the Government during Election to Legislative Assembly and Local Bodies, serving as election volunteers in the voting booths. 25 cadets from the College went for helping in the booths.
- World Aids Day rally to create awareness about AIDS among the public.
- Assisted the Police Department to maintain law and order connection with visits of distinguished persons in meetings organized by Governmental or Semi Governmental institutions.

#### **Women’s Development Cell**

- Lecture was delivered by Prof. Mini Sukumar, Department of Women Studies, University of Calicut on Women, Safety and Society.
- District level inter-collegiate quiz competition was conducted on the topic Women Achievers in 2012 and 2014.
- One-day workshop on the topic Gender and Politics.
- Class on handicrafts such as Dolls, Bags and Greeting Cards making in 2013.
- International Women’s Day Celebrations: Legal awareness talks on “Domestic Violence Act” and “Youth and Health”
- Exhibition on drawing and painting was conducted in association with Drawing and Painting Club.
- In view of Nirbhaya Incident, Delhi, a lecture on Women and Society was conducted.
- Class on handicraft and painting was given to the girl students so as to equip them with skills to promote opportunities for self-employment. The classes for Jewellery work, craft projects, interior art, fabric painting, traditional stitching, embroidery, textile printing on fabric and mural paintings were also given.
- Talk was conducted on Challenges among the Youth by Mr. Ajesh K.P coordinator of EKSAT, Kochi.
- Essay writing competition was conducted on the topic Women Representation in Indian Politics and Society.
- Talk was conducted on the “Value Based Education” by Dr. Renjith Kumar (Education Counsellor of Government of Kerala and NCRT).

#### **Adventure Club:**

- Mr. Raveendran delivered a lecture on the trekking experience and trekking methods. Awareness programme about the different types and species of snakes.





- Mr. Sajeev, Senior Scientist, KFRI, Peechi, Thrissur delivered a lecture on Adventure Trips and its Importance.
- Demonstration on Skills and Techniques of Kalaripayattu, one of the oldest martial arts of Kerala.

#### **Catholic Students Association:**

- Outreach programmes by Santhwanasparsam group – supply of food to
  - The poor children of Snehabhavan and Abhayabhavanin 2012-13.
  - Poor patients of Government Taluk Hospital, Irinjalakuda.
- Organize Value Education Classes for the College on every Thursday and lead the Chapel services like Holy Mass, Retreat, etc.
- Personality Development Camps are conducted every year at Galilee, Thrissur. Around 55-65 students participate in this programme.
- Organize Teachers' Day celebration, Initiation Ceremony for freshers.
- Organize talks on life orientation, personality development, stress management.

#### **Imago**

- Extends helping hand to establishments where the disabled and immobile individuals are sheltered by taking care of matters related to their personal hygiene
- Provides food and clothings to the helpless and homeless in and around Irinjalakuda.

#### **Bhoomithrasena Club**

- Celebrates the World Environment Day by evacuating plastic wastes from the campus
- Conducted intercollegiate essay writing competition on Importance of Biodiversity Conservation
- Planting of saplings in honour of pop in of famous personalities
- Studies on the diversity of spiders and other invertebrates with the aim of biodiversity documentation of the green campus
- Talk on Biodiversity Conservation and Challenges by Dr. V. S. Vijayan, Former Chairman of Kerala Biodiversity Board
- financially supported by Environment Management Agency, Government of Kerala

#### **Biodiversity Club**

- **Talk on Biodiversity Awareness and Conservation**
- Celebrate International Biodiversity Day by planting *Diospyros blancoi* (Velvet Apple) saplings in the Shanthistal, take care
- Organized Wildlife Photo Exhibition with more than 200 rare photographs depicting wildlife, plant diversity and tribal culture
- A talk on Nature was delivered by Mr. Jayakumar Chengamanad, a renowned poet
- One Goal One Tree Programme 2014 under the leadership of Fr. Joy Peenikkaparambil CMI and the students and teachers of Biodiversity Club. Planted 480 Mango saplings in educational and Governmental institutions in and around Irinjalakuda Municipality.
- Vanamaholsavam 2014: The Vanamaholsavam 2014 was inaugurated by Dr. B.S. Corrie IFS, Principal Chief Forest Conservator, Social Forestry, Thiruvananthapuram.
- World Bamboo Day (18<sup>th</sup> September) Celebration: The World Bamboo Day celebration was inaugurated by Mr. T.V. Innocent, M.P. by planted 33 Bamboo plants in the campus which come under 26 species.
- Students were conscientized on environmental preservation by visiting Science Express - the Exhibition organized by DST at Railway Station, Thrissur.
- 'One Prior Mango Sapling for One House' programme 2014 inaugurated by Dr. K. Radhakrishnan, Former Chairman ISRO on 15th November 2014.
- Inauguration of Poly-house (400 sq. m) by Dr. Abdul Salam Hon. Vice Chancellor, University of Calicut in the campus on 11-12-2014.



### Budgetary details

Sl. No	Organizing Body	Income Source	2011	2012	2013	2014
1	NSS	Government	88,000	88,000	88,000	88,000
2	NCC	Government	1,50,480	1,74,250	1,77,300	1,55,160
3	CSA	Management	1,90,350	1,92,450	1,91,550	1,91,370
4	Women's Development Cell	Government	57,900	57,800	59,200	59,580
5	Departments	Management	8,10,000	8,35,000	9,18,000	9,50,000
6	Management Fests	Management	-	2,50,000	-	-
7	<i>Bhoomithrasena</i> Club	Government	10,000	10,000	10,000	10,000
8	Others	Management	5,50,000	6,20,000	7,50,000	7,10,000

### Impact on Students

- Holistic development of students
- Motivation to respond to social issues
- Participation in the nation building process
- concern for fellow beings
- Responsibility to help the downtrodden and marginalized
- Gender sensitization
- Enhancement of leadership quality and organizational ability
- Compassion towards the needy poor
- Moral uprightness and integrity

### 3.6.5 How does the institution promote the participation of students and faculty in extension activities including participation in NSS, YRC, and other National/International agencies?

NSS, NCC, Women's Development Cell, CSA, Entrepreneurship Club, Adventure Club, Biodiversity Club and *Bhoomithrasena* Club play a very vital role in lending a hand to the public and the local community. . Students are provided opportunities for participation in various extension programmes organized by these units.

- After the admission process students are given orientation lectures to promote the participation of students in extension activities. It is mandatory for students to take membership in any one of these Clubs.
- The class teachers ensure the participation and involvement of the students in any one of the Clubs during the teacher-ward interfaces.
- Students who are actively involved in extension programmes are given some relaxations in internal evaluation process, like extra time to submit assignments and presentation of seminar, etc.
- Several programmes are organized by the above-mentioned bodies for generating a feeling of social commitment among students.
- Students who are actively involved in the extension programmes organized by NCC, NSS, CSA, etc are honoured in the Valedictory Meetings of the respective bodies.
- NSS Programme officers, NCC officers and other coordinators of extension activities are encouraged to attend orientation programmes and workshops organized by other institutions.



- Moreover, the Institution promotes extension activities of individual faculty in the form of extension lectures and involvement in various activities of social relevance.
- Students are given participation certificates for their involvement in NSS, NCC, etc.

### **3.6.6 Give details on social surveys, research or extension work (if any) undertaken by the college to ensure social justice and empower students from under-privileged and vulnerable sections of society?**

- The College has not directly undertaken any social surveys or extension work that will ensure social justice and empower students from underprivileged sections of the society. However, the project works of some students from the Department of Economics are related with the underprivileged and vulnerable sections of the society and recommendations are made in their report to ensure social justice and empower these sections.
- The recommendations made by the University or the Government to ensure social justices to students of vulnerable sections are strictly implemented by the Institution.
- In order to ensure social justice and equal opportunity of education to students with income less than a fixed amount and seeking admission to self-financing programmes are offered 30 to 50% fee concession.
- The faculty of the College is actively involved in conducting studies which are socially relevant like women empowerment, unemployment, public transport, water quality analysis, water conservation awareness.
- The Equal Opportunity Cell organized Personality development classes, Bridge Programme in Communications Skills, IT Vinjan classes, Gender sensitization classes, career guidance classes, etc for the benefit of students from marginalized sections of the society.

### **3.6.7 Reflecting on objectives and expected outcomes of the extension activities organized by the institution, comment on how they complement students' academic learning experience and specify the values and skills inculcated.**

The College envisages its products as morally upright persons along with their academic achievements. Participation of students in various extension programmes consistently in many skills and value based qualities in them.

- Students imbibe social values like sympathy, respect, equity, interpersonal relations and leadership skills. through community programmes
- The opportunities to bring the students face to face with social issues especially, poverty and unemployment generate a sense of social responsibility and commitment among students.
- The activities could change the life style of students who are least bothered about the downtrodden category.
- Leadership quality of the students of BPE is enhanced by their conduct of Sports and Games in other institutions.
- Different Clubs conduct camps through which social values and leadership quality are developed.
- Promotes self confidence and self esteem.
- A platform to tap human resources for nation building.
- Inculcate a sense of self-motivation through practical knowledge.
- Professional competency enriched by undertaking socially relevant projects.
- Moral values are boosted by Value Education Classes.
- Improvement in the research and learning aptitude.



**3.6.8 How does the institution ensure the involvement of the community in its reach out activities and contribute to the community development? Detail on the initiatives of the institution that encourage community participation in its activities?**

The College takes the initiative of conducting many outreach and extension programmes for the benefit of the community through its various bodies. For this, it keeps good rapport with local bodies and through field work and survey work identifies the needs of the society. Ensuring and encouraging the participation of the community, the College plans its various outreach and extension programmes. The following are some of the endeavors.

- In connection with the World Cup Football tournament, the Department of BPE and Biodiversity Club organized the project One Goal One Tree with motto Eco-friendly Environment for the protection of the earth. Many institutions joined the drive.
- The Grama Panchayaths/Municipality, Schools & NGOs seek the expertise of the faculty for organizing training camps, workshops etc. Many of the faculty has participated as resource persons in the programmes conducted in the local community at their request. Some of our faculty hold key positions in charitable societies, institutions of differently abled and do extensive work for the community development.
- In the Blood Donation camps the beneficiaries are also motivated to donate blood so that they also become a part of the community benefiting programme.
- The PTA, Alumni of the College have close links with the College neighbourhood, GOs and NGOs. They help in identifying the areas which require immediate attention. Students play an active role in the conduct of the programme.
- Many well wishers have given financial support to Santhwanasparsham project and free noon meal for poor students.
- The infra structure facilities of the College including, Play Grounds, Stadium, Water Analysis Lab, Zoological and Geological Museums, etc. are open for the local community.

**3.6.9 Give details on the constructive relationships forged (if any) with other institutions of the locality for working on various outreach and extension activities.**

The College has organized joint ventures with the following organizations for the conduct of outreach and extension activities. IMA, Schools of the locality, NIEDS, LSG, Kidney Federation of India.

Sl. No	Name of the faculty	Institution/Organization
1	Dr. Balu T. Kuzhivelil	Central University, Kerala
2	Dr. Sudhikumar A.V.	Smithsonian Institution, USA.
3	Dr. Leyon Varghese	Amala Institute of Medical Science, Thrissur
4	Dr. Mathew Paul Ukken	Global labs and consultants, Kochi
5	Dr. V. D. John	C-MET, Thrissur; Amala Institute of Medical Science, Thrissur
6	Dr. V. T. Joy	OASIS Chemicals, Dubai
7	Dr. V. P. Joseph	Newman College, Thodupuzha
8	Dr. K. Chandran	Kerala History Society
9	Dr. S. Sreekumar	Geological Survey of India
10	Dr. Linto Alapatt	Kerala Council for Historical Research
11	Prof. Joshi K. Simon	Kerala State Biodiversity Board
12	Dr. E. M. Thomas	Federation of Indian Industry and Commerce



13	Prof. K. J. Thomas	Sports Authority of India
14	Dr. K. J. Varghese	Institute of English Language

The expertise of the faculty is utilized by the neighbouring institutions of the locality by their continuing presence as resource persons and technical consultants in seminars and conferences and active participants in the constructive projects undertaken by them.

**3.6.10 Give details of awards received by the institution for extension activities and / contributions to the social / community development during the last four years.**

- The Prestigious Green Award (*Haritha Puraskaram*) for colleges Instituted by Kerala State Bio-Diversity Board for valuable contributions to environment– 2011.
- Kerala State Energy Conservation Award – for the College which has made systematic and serious attempts for efficient utilization of energy, conservation of energy, research and promote energy efficiency during the year 2010-11, within the State of Kerala.
- A Citation Plaque and Trophy for State Level Award for energy conservation by KSEB in 2012 for pursuing alternate energy means and also for energy conservation efforts.
- First *Haritha Award* instituted by University of Calicut in 2014.
- Environment Performance Award in 2014 by the Walkers' Club, Irinjalakuda.
- Dr. E.M. Thomas – Best N.S.S Programme officer of the University of Calicut considering the extension programmes organized by NSS in 2010.
- Environment Award to Fr. Joy Peenikkaparambil for the efforts taken to propagate Environmental Protection by the Irinjalakuda Municipality

### 3.7 Collaboration

**3.7.1 How does the institution collaborate and interact with research laboratories, institutes and industry for research activities. Cite examples and benefits accrued of the initiatives – collaborative research, staff exchange, sharing facilities and equipment, research scholarships etc.**

- The College keeps very effective collaborations with esteemed research institutions, laboratories and other higher education institutions. The faculty utilize this for attaining higher exposure in their area of research interest.
- Interactions with eminent experts of such institutions are held by collaborating with them in various research activities and academic meetings.
- The PG Departments select premier centres of expertise like IIT Delhi, NIIST Thiruvananthapuram, CMFRI Cochin, KFRI Peechi, etc. for doing project work.
- Various Departments of the College collaborate with other institutions for the conduct of their research programmes. The Department of Geology and Environment Science undertake collaboration with research institutions like LIAG, Hanover Germany, PRL, Ahmadabad, French Institute Pondicherry, NANSEN Norway, Kerala Forestry College, Mannuthy. Dr. Sudhikumar A.V Department of Zoology has collaborations with Kerala Agriculture University, Thrissur and collaborations for major and minor projects undertaken. Dr. Balu T. Kuzhivelil collaborated with Dr. K.V. Lazar (Former Head of the Department of Zoology University of Calicut, at present, Head of the Department of Environment Science, Central University of Kerala) for a research project funded by MOEF New Delhi. Dr. V.P. Joseph, Department of Physics collaborates with Newman College Thodupuzha for undertaking a major project. Research students of different institutions use laboratories of Christ College for doing projects. Department of Chemistry collaborated with Thaikkattussery Ayurveda Hospital, Ollur in extracting herbal medicines.



- Various workshops and conferences organized by the College and its Departments in collaboration with premier institutions and research establishments provide a platform for academic interactions and sharing of knowledge.

**3.7.2 Provide details on the MoUs/collaborative arrangements (if any) with institutions of national importance / other universities / industries / Corporate (Corporate entities) etc. And how they have contributed to the development of the institution.**

The College has signed MoU with following institutions

- Institute of Indian Bank for Bank coaching.
- Bharathiyar University for offering various courses (off campus centre).
- Westford Academy for various courses.
- Design Academy.
- NAPT Armed Forces Recruitment.
- Leibniz Institute for Applied Geophysics, Hanover, Germany.
- Physical Research Laboratory, Ahmadabad.
- Institute for Ocean Management, Anna University, Chennai.
- Department of Geology, University of Madras.
- National Centre for Earth Science Studies.
- Wadia Institute of Himalayan Geology.
- French Institute, Pondicherry.
- Centre for Earth Research and Management (CERAM), Ernakulam.
- NANSEN, Norway.
- Project“100<sup>th</sup> year of Bohr Atom Model-Celebration throughout Kerala”, in collaboration with APT sanctioned by KSCSTE and implemented in the year 2014.

This is a seminar series arranged throughout Kerala by APT and Department of Physics. The various collaborative activities of the Departments contributed to enrich aspects of practical experience, social responsibility and cultural empowerment.

**3.7.3 Give details (if any) on the industry-institution-community interactions that have contributed to the establishment/creation/up-gradation of academic facilities, student and staff support, infrastructure facilities of the institution viz. laboratories / library / new technology / placement services etc.**

- Enhancement of Academic facilities (Class rooms and class room facilities, laboratories, library, new technology).
- College Library - Books contributed by old students, well wishers and experts.
- OSA Project for the construction of Indoor stadium.
- Construction of Gallery in the football ground.
- Computer Lab.
- Prof. EKN memorial PG library: books contributed by teachers and public.
- Collaboration with Carborundum Universal Limited (CUMI) by Dr. V T Joy, Department of Chemistry.
- Gallery of stadium funded by local community (Kandamkulathy family).
- Placement drives by firms like SIB, Federal Bank, SIB, Wipro, Goan Institute, etc.
- The Kerala Government sponsored Additional Skill Acquisition Programme (ASAP)
- Geo Informatics Course conducted by Department of Geology jointly with Centre for Earth Research and Environment Management.
- Leadership camps organized for students by AICUF.



- Various departments have formal and informal tie ups with external agencies like Solvent Extractions Ltd., KPL Oil Millsthat could admit students for internships.
- Industrial visits and field works during the study trips create an awareness about research centers and develop research culture.

**3.7.4 Highlighting the names of eminent scientists / participants who contributed to the events, provide details of national and international conferences organized by the college during the last four years.**

Sl. No.	Event	Scientists contributed
1	UGC and KSCSTE sponsored International Seminar on <i>Nanotechnology and Nanomaterials Current Status and Emerging Trends (NanoTech 2010)</i> organized by the Department of Geology and Environmental Science.	<ul style="list-style-type: none"><li>• Dr. C.P. Vinod, Cardiff University, U.K.</li><li>• Dr. Sabhu Thomas, M.G. University, Kottayam.</li><li>• Dr. Rani Joseph, CUSAT.</li></ul>
2	UGC sponsored Workshop on <i>Methodology of Teaching Chemistry</i> organized by the Department of Chemistry.	<ul style="list-style-type: none"><li>• Dr. S. Chandrasekharan, Dean of Faculty of Science, IISC, Bangalore.</li><li>• Dr. K. George Thomas, IISER, Thiruvananthapuram.</li><li>• Dr. Mangalam S. Nair, Head, Organic Chemistry Section, NIIST, Thiruvananthapuram.</li><li>• Dr. S. Suganan, Professor, CUSAT, Cochin.</li></ul>
3	UGC sponsored National Seminar on <i>Materials for Electromagnetic Applications (emMET 2011)</i> by the Department of Physics.	<ul style="list-style-type: none"><li>• Dr. K.T. Mathew, Professor Emeritus, CUSAT.</li><li>• Dr. N. Harish Kumar, IIT Chennai.</li><li>• Dr. H. Sreemoolanadhan, VSSC, Trivandrum.</li><li>• Dr. R.Ratheesh, CMET, Government of India.</li><li>• Dr. Thomaskutty Mathew, MG University, Kottayam.</li><li>• Dr. Vincent Mathew, Central University, Kasaragod.</li></ul>
4	Kerala state Higher Education Council sponsored National Seminar on <i>Impact of Globalization on Higher Education</i> organized by the Department of Economics.	<ul style="list-style-type: none"><li>• Prof. P P Pillai, Dr. John Mathai Centre, University of Calicut.</li></ul>
5	National Seminar on <i>Environment and Science</i> organized by the Department of Geology and Environmental Science.	<ul style="list-style-type: none"><li>• Dr. P. S. Easa, Director, Kerala Forests Research Institute, Peechi.</li></ul>
6	National Workshop on <i>Complex Algebra</i> organized by the Department of Physics.	<ul style="list-style-type: none"><li>• Dr. SVM Satyanarayana, Central University of Pondicherry.</li></ul>



7	International Conference on <i>Imperial Rome, Indian Ocean Regions and Muzaris</i> organized by Department of History jointly with Mar Thoma Research Academy Azhikode, IRISH and Archeological Survey of India.	<ul style="list-style-type: none"><li>• Rev. Dr. Pauly Kannookkadan, Bishop, Irinjakauda Diocese.</li><li>• Dr. Steven E. Sidebotham, Professor, Dept. of History, University of Delaware, USA.</li><li>• Prof. K. Krishnan, Dept. of Archaeology and Ancient History, MS University, Baroda.</li><li>• Prof. Michael Speidal, University of Zurich, Switzerland.</li><li>• Prof. Federico de Romanis, Associate Professor, Dipartimento di Storia, Universita di Roma, Italy.</li><li>• Dr. Alexander Sedov, Director General, State Museum of Oriental Art, Moscow, Russia.</li><li>• Prof. K. Rajan, Dept. of History, Pondichery University, Pondichery.</li><li>• Dr. Ariane de Saxce, University of Paris-Sorbonne, France.</li><li>• Prof. Robin Coingham, PVC, Durham University, UK.</li><li>• Roberta Tromber, Dept. of Conservation and Scientific Research, The British Museum, London.</li><li>• Dr. Sila Tripathi, CSIR- National Institute of Oceanography, Dona Paula, Goa.</li><li>• Dr. Nambirajan, Superintending archaeologist, ASI, Bangalore.</li><li>• Prof. Ranabin Chakravarati, School of Social Sciences, JNU Delhi.</li></ul>
8	Science Academies' Lecture Workshop on <i>Super Molecular Chemistry and Nano Science</i> organized by the Department of Chemistry.	<ul style="list-style-type: none"><li>• Dr. Sunil Narayanankutty, Department of Polymer Chemistry, CUSAT, Cochin.</li><li>• Dr. K. V. Radhakrishnan, Scientist, NIIST, Thiruvananthapuram.</li><li>• Dr. K. George Thomas, IISER, Thiruvananthapuram</li><li>• Dr. Kana M. Suresh, IISER, Thiruvananthapuram.</li><li>• Dr. Reji Varghese, IISER, Thiruvananthapuram.</li><li>• Dr. Vinesh Vijayan, IISER, Thiruvananthapuram.</li></ul>
9	UGC sponsored National Seminar on <i>Advanced Computational Techniques (ACT 2011)</i> organized by the Department of Mathematics and Statistics.	<ul style="list-style-type: none"><li>• Dr. Anaul Kabir, HOD, School of Biotechnology, NIT Calicut.</li><li>• Dr. M. John Joseph, HOD, Rural Development Science, St. Arul Anandar College Madhurai.</li><li>• Dr. Alice Mani Jacob, Senior Consultant, IGNOU, Cochin.</li><li>• Dr. Jacob T. M., Dept. of Statistics, Nirmala College, Muvattupuzha.</li></ul>





10	National Conference on <i>Sports Psychology: On the Cross Roads of Theory and Application</i> under the aegis of Sports Psychology Association of India organized by BPE Department.	<ul style="list-style-type: none"><li>• Dr. M. L. Kamlesh, Former Principal, LNCPE, Thiruvananthapura, Former President Sports Psychology Association of India.</li><li>• Dr. N. S. Mann, Retired Professor, Dept. Of Physical Education, university of Chandigarh, Punjab.</li><li>• Prof. Tony Morris, Sports Psychologist, Victoria University, Australia.</li><li>• Dr. Anil Ramachandran, Associate Professor, PKM College of Education, Madampam.</li><li>• Dr. Dhilip Dhureha, Professor, Dept. of Physical Education, BHU, Varanasi.</li><li>• Dr. Sureshkutty K., HOD of Physical Education, Kannur University.</li><li>• Col. Dr. M. S. Gill, Colonel of Army and of executive committee member of SPAI.</li><li>• Dr. Sundhar Raj Urs, Associate Professor, UCPE Bangalore University, Bangalore.</li><li>• Dr. G. P. Thakur, Retired Professor of Psychology and Former President of SPAI.</li><li>• Dr. Avinash Sidhu, retired Professor LNUPE, Gwalior.</li></ul>
11	National Conference on <i>Green Business: Emerging Trends, Opportunities and Challenges</i> organized by the Department of Commerce.	<ul style="list-style-type: none"><li>• Dr. M.C. Dileep Kumar, Vice Chancellor of Sree Sankaracharya Sanskrit University Kalady.</li><li>• Fr. Paul Achandy, Ex Director of Management, Christ University, Bangalore.</li><li>• Mathew Jose, CEO – Paperman Ltd, Chennai.</li></ul>
12	National Seminar on <i>Current Trends in Chemistry</i> organized by the Department of Chemistry.	<ul style="list-style-type: none"><li>• Dr. Abraham Joseph, CDC Calicut University.</li><li>• Dr. K. V. Radhakrishnan, Scientist F, NIIST, Thiruvananthapuram.</li><li>• Dr. Rajeev S Menon, Ramanujan Fellow, IICT Hyderabad.</li><li>• Dr. R. S. Swathi, Scientist, IISER, Thiruvananthapuram.</li><li>• Dr. Manoj Mathews, Assistant Professor, Devagiri College, Kozhikode.</li></ul>
13	The Department of Malayalam organized a one day state level seminar on <i>Language, Literature and Art</i> .	<ul style="list-style-type: none"><li>• Dr A. M. Sreedharan, Head, Department of Malayalam, Kannur University.</li><li>• Dr. K. Joy Paul, Director, Malayala Padana Gaveshana Kendram, Thrissur.</li></ul>
14	State Level Seminar on <i>International year of Astronomy Crisis in Cosmology</i> organized by the Department of Physics.	<ul style="list-style-type: none"><li>• Dr. Babu Joseph, former Vice Chancellor, Cochin University of Science and Technology.</li><li>• Dr. V. C. Kuriakose, former HOD, Cochin University of Science and Technology.</li></ul>



15	State Level Invited Lecture on <i>An overview of the Arctic Expedition and on Marine Fisheries</i> organized by the Department of Zoology.	<ul style="list-style-type: none"><li>• Dr. A. A. Mohammed Hatha, Associate Professor, Cochin University of Science and Technology.</li><li>• Dr. N G Pillai, Emeritus Scientist and former Director, CMFRI Cochin.</li></ul>
16	State Level Seminar on <i>Innovations in Microfinance</i> organized by the Department of Commerce.	<ul style="list-style-type: none"><li>• Mr. George Thomas, Director, ESAF Microfinance and Investment Ltd.</li><li>• Mrs. Tanie Thomas, District coordinator, Kudumbasree, Ernakulam.</li></ul>
17	Kerala state Higher Education Council sponsored State Level Workshop on <i>Methodology Course in the Curriculum for Undergraduate Programme (Science)</i> organized by the Internal Quality Assurance Cell.	<ul style="list-style-type: none"><li>• Rev. Dr. Sr. Annie Kuriakose, Principal St. Joseph's College, Irinjalakuda.</li></ul>
18	NAAC sponsored State Level Seminar on <i>Quality Sustenance in Higher Education: Challenges and Prospects of Academic and Research Transactions</i> organized by the Internal Quality Assurance Cell.	<ul style="list-style-type: none"><li>• Dr. Tharsis Joseph, NAAC peer team member and former Principal, Devamatha College, Kuruvilangad.</li><li>• Dr. Stephan Mathews, NAAC peer team member and former principal, SB College Changanchery.</li><li>• Dr. K K Jose, Principal St. Thomas College Pala.</li><li>• Dr. R Radhakrishnan, Associate Professor, Dept. of Statistics, PSG College Coimbatore.</li></ul>
19	State Level Workshop on <i>Intellectual Property Rights</i> organized by Internal Quality Assurance Cell jointly with Patent Information Centre – Kerala KSCSTE.	<ul style="list-style-type: none"><li>• Dr. Suresh Nair, Chief Technology Officer SFO Technologies (NeST Group Company).</li><li>• Mr. V P Balagangadharan, Advisor Former Professor, Brahmaprakash Scientist.</li><li>• Mr. Aravind K. J. Project Officer, IPFC for MSME, KSCSTE.</li><li>• Adv. Febin James, Trademark Attorney, Legalities IP Services, Thrissur.</li></ul>

**3.7.5 How many of the linkages/collaborations have actually resulted in formal MoUs and agreements? List out the activities and beneficiaries and cite examples (if any) of the established linkage that enhanced and or facilitated.**

**a) Curriculum development / enrichment**

Being an affiliated college, it has limited scope in the flexibility of curriculum. However, good numbers of teachers are members of Board of Studies of the affiliated University and other Universities. Dr. C O Joshi, Department of Zoology is Syndicate Member of the University of Calicut while Fr. Dr. T M Jose, the Principal, Prof. Sebastian Joseph and Prof. K O Francis are the members of the Senate. They continue to contribute much, in their capacity, by giving inputs in designing of the curriculum.

**b) Internship / On-the-job training.**

KLF Industries, Irinjalakuda Town Cooperative Bank, KPL Oil Mills, KSE, KSFE, Kerala Agro Machinery Corporation, South Indian Bank, Federal Bank, ICICI, offer job opportunities, Internships and training programmes to the students.



**c) Summer placements**

Students of Department of Commerce are given placement training in the organizations, KAMCO Ltd, Alagappa Textiles Ltd, Apollo Tyres Ltd.

**d) Research**

Dr. Balu T. Kuzhivelil of Department of Zoology collaborated with Dr. K.V. Lazar (Former Head of the Department of Zoology, University of Calicut at present Head of the Department of Environment Science, Central University, led to the partial gene sequences of metallothionein from *Aplochielus lineatus* (Deposited in NCBI)

**e) Consultancy**

The faculty of the Department of Commerce provide consultancy service regarding income tax matters of other members of the faculty free of cost.

Dr. Tessa Paul. P does identification of algae to the research students of the Department of Environment Science, University of Calicut and the School of Biosciences, M.G. University, Kottayam.

Dr. Sudhikumar A. V. of Department of Zoology provides research guidance to M. Sc. and Ph. D. students of other Universities and colleges.

Dr. V P Joseph of Department of Physics provides research guidance to M.Sc., M. Phil. and INSPIRE (SHE) students of other colleges.





Ph. D. Evaluation

# The Indian EXPRESS Young Scientist Award for Sudhikumar A V

Express News Service

**Thrissur:** Dr Sudhikumar A V spider taxonomist has bagged the Young Scientist Award of the year 2013 instituted by Science and Engineering Research Board (SERB) of the Department of Science and Technology (DST), New Delhi. He is an assistant professor in the Department of Zoology at Christ College, Irinjalakuda.

The selection was based on the study proposed on Diversity and Bio-ecology of spiders in the Wayanad Wildlife Sanctuary of Western Ghats in Kerala.

The prize amount is ₹25 lakh to conduct further studies on the diversity of spiders



of Wayanad Wildlife Sanctuary.

He has been awarded the prestigious Encyclopaedia of Life (EOL) fellowship in 2010 instituted by Smithsonian Institution of American Museum of Natural History

for his study on spiders of the Western Ghats.

He is the only Indian to have been selected for the Global Taxonomy Initiative training programme conducted jointly by the United Nations and Royal Belgian Institute of Natural Sciences in 2006. Besides, he is one of the 16 awardees selected from 85 young researchers around the world and the only Indian to have achieved this feat. He has also presented papers in many national and international arachnology congresses.

Dr Sudhikumar has taken his doctoral degree on "Diversity of spiders in Kuttanad rice agroecosystem" from Mahatma Gandhi University.

DST-SERB Young Scientist Award



IQAC Seminar



IQAC Seminar



International Conference by History Department



Green Campus Award by University of Calicut





Vidyarambha Susrusha - Initiation Ceremony



CSA Inauguration



Hair Donation for Cancer Patients by NSS



Blood Donation Camp by NCC



Uttarakhand Relief Fund Collection by NSS



CSA at Work Place







## **CRITERION IV INFRASTRUCTURE AND LEARNING RESOURCES**

An institution is known by the quality of its students. An unmistakable feature of quality that is embedded in any institution is reflected in its infrastructural facilities. The giant leaps Christ College has made in the development of infrastructure, betterment of amenities and investment in technology serve as indicators for measuring the progress of the College.

### **4.1 Physical Facilities**

#### **4.1.1 What is the policy of the institution for creation and enhancement of infrastructure that facilitate effective teaching and learning?**

The policy of the Institution is to provide excellent infrastructural facilities that create the right ambience for effective teaching and learning. It is deeply rooted in attaining the stated Mission and Vision of the Institution.

- The College is situated in a luxuriant, verdurous campus, sprawling over 48 acres of land, foliaged by medicinal trees and herbal gardens. This sylvan atmosphere effuses a peace and calm that is needed for serious academic transactions. This is a unique feature, which perhaps, no other college in Kerala can boast of.
- The Management accomplishes the creation and enhancement of the infrastructure facilities through different platforms.
- At the end of every academic year the Departments and other academic committees convene meetings and review the infrastructure requirements.
- After discussions with the Staff Council and the IQAC, the Principal places these list of prerequisites in the Governing Body.
- The Management evaluates the essentiality of the requirements and prioritizes the indispensable ones for effective teaching and learning.
- The policy of the Management in the infrastructural development is focused on:
  - Increasing academic requirements due to revision of the curriculum of existing programmes as well as the newly introduced programmes.
  - Maximum exploitation of the existing facilities.
  - Undertaking projects that foster long term developments.
  - Construction and extension of the buildings to accommodate the newly begun programmes without destroying the greenery of the campus.

The College leaves no stone unturned to generate funds from various sponsors like UGC, well-wishers, Alumni, PTA, benefactors. Effective and systematic utilization of the funds is carried out through the Planning Board. The College has a cordial relationship with all its well wishers, Alumni and benefactors including those abroad, which makes the planning easy.

#### **4.1.2. Details of the facilities available for:**

##### **➤ a) Curricular and co curricular activities**

- The campus consists mainly of five three-storied buildings and annexe buildings that house all the infrastructural facilities required for the effective conduct of curricular, co-curricular and extracurricular activities.
- It has 80 class rooms, 20 Departments which are well furnished with electric connectivity points and public addressing system. All the rooms have spacious verandahs, astonishingly ventilated and naturally lighted.
- All final year UG and PG classes have ICT facility.
- All the Departments are provided with computers, laptops, printers, scanners, projectors, internet connectivity with localized WiFi, cupboards and other amenities



like tutorial spaces, washing and dining compartments. The Departments are interconnected using LAN for easy data transfer among them and with the Office.

- The internet café adjacent to the library has unlimited download facility for students.
- Science Departments are supported with FIST grant offered by DST.
- The Faculty engaged in major research projects are given separate project rooms.
- The Administrative Office of the College is fully automated with competent software to conduct all transactions.
- The Main Block is situated in front of beautiful, semicircular gardens, at a convenient distance from the main road so as to avoid sound pollution.
- The strong infrastructure meets all the academic postulations needed for the integral growth of the students.
- A densely wooded eco-friendly campus fosters pleasant academic atmosphere.

The following table gives the block wise facilities.

<b>Block</b>	<b>Details of Occupants</b>
Main Block Ground Floor	Department of Physics, PG Electronics Lab, UG Mechanics Lab, UG Photonics Lab, Department of Economics, Department of Physical Education, Class rooms, English Language Lab with 20 Computers, Office of Bharathiar University Off-Campus Centre and Centre for Continuing Education, Computer Lab and Electromagnetic Research Lab and Generator Room.
Main Block First Floor	Principal's Office, Academic, Accounts and Administrative Office, IQAC Office, Examination Office, Visitors' Room, Conference Hall, Departments of English, Mathematics, Statistics, Malayalam, Hindi, Sanskrit, Kuriakose Elias Chavara Seminar Hall, Toilets, Class rooms.
Main Block Second floor	Classrooms, Toilets (Extension of both wings in progress).
Main Block Third Floor	Class rooms.
Zoology Block Ground floor	Zoology Museum, Zoology Store, Department of History, Class rooms, Toilet for Women students etc.
Zoology Block First floor	Department of Zoology, PG Lab, UG Lab, Zoology Computer Lab, Instrumentation Room, Lab for Microtechniques, Toilet etc.
Zoology Block Second floor	Class rooms, Home Theatre, Immunology and Toxicology Research Lab, Applied Biochemistry and Biotechnology Lab, Research Scholars' Room and Laboratories, Girls Toilet etc.
Zoology Block Annex	Energy Taxonomy Lab, Animal Behaviour Lab, Animal House.
Library Ground Floor	Librarian's Cabin, Internet connectivity in 20 computers, Reference Section, Journal Section and Reading Area.
Library First Floor	Department-wise Book Sections with Bar Coding Facility (Collection of 70000 books, nearly 150 CD ROMs).
Commerce Block Ground Floor	Department of Botany, Botany Lab, Botany Store, Class rooms, Ladies' room, etc.
Commerce Block First Floor	Department of Commerce, Computer Lab with 24 Computers, Class rooms, Counselling room, Toilet.
Commerce Block Second Floor	Class rooms.
Chemistry Ground Floor	Department of Chemistry, Class rooms, Chemistry PG Lab, Research Lab, Store room, Toilet etc.



Chemistry First Floor	Department of Geology and Environmental Science, Class rooms, GIS Lab, Water Testing Lab, Geology Museum, Chemistry UG Lab, Research Scholars' Room etc.
Chemistry Second Floor	Class rooms, Toilets, PG Department of English, Department of Computer Science, Department of Social Work, Computer Lab with 60 computers.
New Block Ground Floor	Departments of Bharathiar University Off-Campus Centre, Computer Lab, Class Rooms, Toilets, Multi-gym Health Club. Botany Lab, Canteen, Xerox Centre, Stationery Store.
New Block First Floor	Departments: Psychology, Commerce, Malayalam, Class rooms, Toilets.
New Block Second Floor	Psychology Lab, Class Rooms, Toilets.
B.P.E. Block Ground Floor	Department of BPE, Reception, Seminar Hall, Fitness and Conditioning Rooms, Aerobic Centre, Class rooms, 14x14m Two Multipurpose Indoor Halls, Two Store Rooms, Toilets etc.
B.P.E. Block First Floor	Department of Interior and Fashion Design, Class rooms, Seminar Hall, Recreation Room, Toilets etc.
Auditorium Block	Auditorium with magnificent lighting facilities, Balcony, Fine Arts' Room, Green Room, Shooting Range(short range training), Toilets etc.
Parking Area	Students: Two wheeler Shed near the Main Gate, on both sides of the fountain and at the back side of the Main Block. Staff: Near the Auditorium and in front of the Main Block.
Ladies' Retiring Room Block	Toilets, Sick Room for Girls and Women's Development Cell Office, NCC Office.
Dining Block	Canteen with spacious covered outdoor seating, NSS Office, Day Care Centre and NSS Green Valley adjacent to the Canteen.

The College also offers adequate, separate laboratory facilities for the UG, PG and Research students.

Name of the Lab	Facilities Available
Botany	Lab for UG and PG Store, Herbarium with 525 Herbarium Sheets, Department Library.
Chemistry	UG Lab. Two PG Labs, Research Lab, Computer Room, Mini Seminar Hall.
Geology and Environmental Science	<ul style="list-style-type: none"> <li>▪ UG Lab</li> <li>▪ Water-Testing Lab with all necessary equipment</li> <li>▪ GIS Lab with 12 Computers and Software and LAN facility.</li> </ul>
Physics	<ul style="list-style-type: none"> <li>▪ UG Mechanics Lab</li> <li>▪ UG Optics Lab</li> <li>▪ PG Electronics Lab</li> <li>▪ Electromagnetic Research Lab</li> <li>▪ Work-Station</li> <li>▪ Dip Coating Unit and Ellipsometer.</li> </ul>
Zoology	<ul style="list-style-type: none"> <li>▪ UG Lab.</li> <li>▪ Two PG Labs.</li> <li>▪ Wetland Research Lab.</li> <li>▪ Animal Behaviour Lab.</li> <li>▪ Immunology and Toxicology Research Lab.</li> </ul>



	<ul style="list-style-type: none"><li>▪ Applied Biochemistry and Biotechnology Lab.</li><li>▪ Aquarium Room with Six Built-in Aquaria.</li><li>▪ Instrumentation Room with Spectrophotometers, High-speed Refrigerated Centrifuge, Microtome's, etc.</li><li>▪ BOD Incubator.</li><li>▪ Computer Lab with three Computers and accessories.</li><li>▪ <b><i>Zoology Museum, the most marvellous among the museums of affiliated Colleges in Kerala with more than 3000 specimens and a host of rare specimens and stuffed animals.</i></b></li></ul>
Language Lab	Comprises 22 computers with LAN and internet facility, projector, Audio System, UPS, and ORELL DLL Interactive Language Communication Software.
Computer Lab	<ul style="list-style-type: none"><li>▪ A Lab with 24 Computers with LAN and internet, Multimedia facilities, LCD Projector, Smart Board, UPS and Audio system.</li><li>▪ New Computer Lab with 60 Computers, LAN and Internet, Multimedia facilities, LED Monitor, Smart Board, UPS and Audio System.</li><li>▪ Computer Lab 21 Computers and Internet facilities (for BCA programme).</li><li>▪ Computer Lab 24 Computers and Internet facilities (for Off-campus and College purposes).</li></ul>

- All science laboratories have modern equipment to augment academic and extension activities.
  - The Computer Lab and Language Lab are equipped with modern software and accessories.
  - Well equipped Water Analysis Lab is open to the public also.
  - The Museum of the Department of Zoology stands as a centre of attraction to students, teachers and the public at large because of its extra-ordinariness and singularity. It houses a ***DNA Model made by Rev. Fr. Issac Alappat CMI, the former Head of the Department of Zoology***, a replica of which was sent to the ***Defense Museum at Mysore at the special request of Dr. A.P.J. Abdul Kalam, former Hon President of India.***
  - The Physics Lab houses a variety of equipment, which are exhibited every year for the students and teachers of the neighbouring schools, thereby giving them an opportunity to observe them working, vis-à-vis what they have learned in text books.
  - The Career Guidance and Placement Cell train our students in Group Discussion, Competitive Examinations, Interview Facing Skills, etc. and boost the co-curricular performance of the students.
  - The Cell takes advantage of every opportunity to conduct Campus Placement drives. Coaching classes are offered by Civil Services Academy to groom students to be employable in Government services.
- **Extracurricular Activities.**
- Christ College has the most coveted and envied destination in the field of sports among the Colleges of Kerala. It has excellent track records in various sports and games programmes, the main reason being the unique physical facilities it provides. Presently the infrastructural facilities for sports and games are shared and managed by two Department of Physical Education, which work in tandem for boosting the talents of the students in sports and games.
- The Departments of Physical Education and B.P.E. provide the best infrastructural facilities for training in Football, Volleyball, Basketball, Cricket, Handball, Kho-Kho,



Khabadi, Ball badminton, Shuttle Badminton, Wrestling, Judo, Power Lifting, etc. and the sizeable number of laurels won by the teams for last several years is commendable.

- The facilities include a beautiful 400m Eight Lane Track Athletic Stadium, Cricket Field, Standard Football Field, Hockey Field, Two Handball Courts, Three Volleyball Courts, Three Complete Sets of Apparatus for gymnastics for Men and Women with Indoor Floor Exercise Area of 14x14m Mattress with Cover, Two Full-Fledged Weight Training Conditioning Halls, facilities for Archery, Cycling, Softball, Baseball, 4 TT Tables, Three Basketball Courts with multiple training facility, Cricket Net Training Field, Judo Training facilities and Mats, Wrestling Training facilities, Multi-gym Cum Health Club, 10 meter Indoor Shooting Range, etc apart from Sports hostels in Football and Athletics.
- The sports and games infrastructure and technical support are very much utilized by the neighbouring schools and institutions for conducting various sports meets.
- The College has two NSS units extending services under the leadership of two Programme Officers and one Programme Coordinator. It has an office, store room and equipment and tools required for camps and social activities. The *Green Valley* is maintained by the NSS units. The one-day works organized by them are mainly to keep the campus clean and hygienic. The motto of NSS activities is “Go Green Be Clean”.
- The College has an active NCC Unit which organizes different programs for the overall development of the students. The NCC unit is provided with an office, store room and a display hall.
- CSS is mandatory for all degree students of the affiliated Colleges of the University, to make them committed to the society by involving in social service. They are expected to devote 30 hours of dedicated service. These students also see to the cleanliness of the campus.
- CSA is active in the campus to foster Catholic life in all aspects - spiritual, intellectual, social, ethical and cultural.
- The various clubs under the coordinatorship of the faculty make use of the infrastructural facilities of the College, for various extracurricular activities.
- Nature Club, Dance Club, Debate Club, Women’s Development Cell, Fine Arts Club, Drama Club, Film Club, Painting and Drawing Club, Adventure Club, Biodiversity Club, *Bhoomithrasena* Club etc. are fine-tuned to the needs of the students to whet their talents.
- Every year the Fine Arts Club creates a platform for students to present their talents by conducting various cultural programmes and competitions.
- Each club of the College has a clearly stated Vision and Mission, and strives hard to translate the goal into reality by optimal use of the physical facilities of the College and winning prizes at the University level competitions.
- Considering the importance of public speaking ability, the Department of English offers Add-on programme on Communication Skills. Besides this, special effort is taken to improve this skill by the Debate Club.
- The Department of BPE conducts an Add-on programme on Yoga Therapy and Physical Fitness. The programme is indented to foster holistic and mental development of students. Moreover, an open course in Yoga is offered by the Department of Physical Education on Yoga which is attended by approximately fifty students.
- The College has two canteens with spacious covered outdoor seating.
- Retiring room for girl students and hostel facilities for girls and boys are provided.
- Rain Water Harvesting, Water Recharging Mechanism and Solar Panels are installed for power generation.
- The service of a Counsellor is provided to help students in stress management.



**4.1.3 How does the institution plan and ensure that the available infrastructure is in line with its academic growth and is optimally utilized? Give specific examples of the facilities developed/ augmented and the amount spent during the last four years (Enclose the Master Plan of the Institution/ campus and indicate the existing physical infrastructure and the future planned expansions if any).**

The College aims at the optimum utilization of the infrastructural facilities for the academic growth of students. At the same time it assures of the availability of class rooms, laboratories and library resources before the commencement of new programmes. The Government was reluctant to sanction new programme in the aided category due to the additional financial commitment likely to occur. Later, it changed the policy to sanction new course in the self-financing stream. Accordingly, during the last four years the College started eight UG programmes and four PG programmes. Enhancement of Departments with higher courses necessitated ample increase in the infrastructural facilities of the College. The details of amount spent by the College during four years towards important infrastructure facilities due to commencement of new programmes are given below.

Sl. No.	Particulars	Amount Rs
1.	Building area for class rooms and others	3,79,00,000
2.	Class room furniture, electrification, etc	38,00,000
3.	Computer Lab multimedia facilities	25,00,000
4.	Toilets	9,00,000
5.	Psychology, Botany Lab, Staff Room facilities	7,00,000
6.	Language Lab Renovation	3,00,000
7.	New canteen and vending machines	7,00,000
8.	Gents' Hostel: Construction of Deluxe Rooms for the Faculty and common toilets	30,00,000
9.	Ladies' Hostel Annex	1,15,00,000
10.	Construction of Gallery and Stadium in the Football Ground	35,00,000
11.	Campus and Garden beautification,	12,00,000
12.	Bridge between Main Block and Chemistry Block	4,00,000
13.	Installation of Solar Panels	25,00,000

**Future Expansion**

- Construction of five storied PG and Research Block near the Botanical Garden.
- Swimming pool in the area between Junior Hostel and Main hostel.
- Indoor Stadium near the present Hockey Court.
- Construction of new Handball and Basketball Courts.
- Hockey turf near the Junior Hostel.
- Six storied building near the Auditorium which includes, flats for staff, hostels for international students and shopping area.
- Construction of Ladies Hostel Annex II.
- Extension of Chemistry Block in east west direction, which includes air conditioned Seminar Hall with international standards, Class rooms and Laboratories.
- Starting of new Programmes.
- Enhancement of all present PG Departments to the status of Research Centers
- M.S.W., M.Sc. Clinical Psychology, B.Sc. Catering and Hotel Management, B.B.A., B.Sc. Botany, B.A. English and History (Double Main), B.Sc. Food Science, B.Com. Honours and B.Com. Professional. B.Sc. Environmental Science with Complementary Programmes Water Management and Geology.



- Digitalized Library.
- All class rooms ICT enabled.
- Access to internationally reputed libraries.

#### **4.1.4 How does the institution ensure that the infrastructure facilities meet the requirements of students with physical disabilities?**

The differently-abled students mainly belong to the category of fully or partially vision impaired students or lame students and most of them seek admission in Humanities or Commerce stream.

- As the Vision and Mission statements are ingrained in the very pulse of the Institution the College is bound to create for the differently-abled students a suitable ethos which makes them happy and relax. The College has envisaged some special care measures for the integration of these children with the general students community.
- Classes are suitably shifted to the ground floor of various blocks so as to have easy accessibility; even proximity to the washrooms is looked into.
- Ramps with hand rails are built in all blocks to help the differently-abled students.
- The library maintains Braille books for the vision impaired students.
- Vision impaired students are permitted to use electronic devices inside the class rooms to record lectures of the faculty.
- Scribes are arranged to assist those who are unable to write examinations on their own and extra time is permitted as per University norms.
- Special toilets are provided for students with physical disabilities.

#### **4.1.5 Give details on the residential facility and various provisions available within them:**

Hostel facilities are available inside to the campus for both students and staff. In the Men's hostel, there are 207 double rooms for students and 24 deluxe rooms for staff members. Among co-ed institutions in Kerala, Christ College is perhaps the only College which offers hostel facility for girl students. The Girls' Hostel has 42 spacious rooms and a Prayer Hall. All the rooms in both the hostels have enough furniture, fan and lights. There are sufficient number of bathrooms, attached and common, in the men's and girls' hostels. Hostels are provided with water purifier and sufficient number of water taps. Single room residential facility is available for teachers. Moreover, the hostels have space to accommodate guests who come to attend seminars and conferences. Other facilities in the hostel are the following.

##### **Common facilities in Hostels**

- Common reading room with newspapers and magazines for reading.
- Facility for recreation and entertainment like TV, radio, DVD/CD Player etc.
- Indoor games like Caroms, Chess etc.
- TT Tables and Badminton court.
- Computer with internet facility.

A Fitness Centre is provided in the men's hostel. Insinurators are installed in all floors of the girls' hostel. Hostels keep a very eco-friendly atmosphere. All efforts are taken for cost reduced but effective waste management. Solar panels have been installed which save nearly 35% power consumption. Rain water harvesting units have been installed in the hostels to ensure continuous water supply. Both hostels have warden and assistant wardens to help them. The service of a full time security is available.

#### **4.1.6 What are the provisions made available to students and staff in terms of health care on the campus and off the campus?**



- The College is one of the rare colleges with vast eco-friendly ever green campus which helps to maintain carbon neutrality and unpolluted fresh air.
- Purified drinking water facility is arranged in key places of all blocks.
- The College organizes many health awareness programmes for the benefit of the faculty and students.
- Students are enrolled in the Group Insurance Scheme of the State Government to ensure financial support for medical expenses.
- The College has Multi-gym Health Club and Fitness Centre in the new block, gents' hostels and in the Department of B.P.E. to promote healthy lifestyle through exercise.
- Seminars are organized to orient students to the prevention of and protection against infectious and communicable diseases and other health issues. Dr. V P Gangadharan, Oncologist, Lakeshore Hospital Cochin, a renowned alumnus of the College was one of the resource persons.
- In the campus First Aid is provided for the students and staff in case of emergencies. A sick room is provided for the primary health care and first aid for girls in the ladies' retiring room.
- Many well equipped hospitals are situated within close proximity of the College. Therefore, even though there is no medical officer in the campus, the College takes all necessary steps to shifting ailing students to the nearest hospital in case of any emergency.
- A vehicle is made available in the College during day time and in the girls' hostel during night to meet such emergencies.
- There is an agreement between the College and the Sacred Heart Mission Hospital, Pullur for the free blood checkup of the students. A free general medical checkup for all students is arranged every year.
- The NSS and NCC units organize Blood Group and Diabetes Detection Camps, Eye Camps, Body Mass Index Determination Camp every year.
- Spiritual well being of the students is ensured through value education classes and sermons rendered through chapel services.
- Full time service of a Counsellor is there to help students in stress management. The counselling room arranged in the College assures privacy to the students.

**4.1.7 Give details of the Common Facilities available on the campus –spaces for special units like IQAC, Grievance Redressal unit, Women's Development Cell, Counselling and Career Guidance, Placement Unit, Health Centre, Canteen, recreational spaces for staff and students, safe drinking water facility, auditorium, etc.**

**IQAC:** A well equipped Office close to the Principal's Office and Administrative Office with computers, scanner, printer, internet connectivity, LAN facility and furnished with sufficient tables, chairs, cupboards and notice board.

**Grievance Redressal unit:** The College has a two-tier grievance redressal mechanism. To look into the grievances of students, a Students Grievance Redressal Cell is functioning with the Principal as the Chairman. For addressing the grievances of the staff, a second committee, called the 'Staff Complaint Redressal Apex Committee' functions in which the Principal is a non-member. In the 'Apex Committee', the Manager of the College is the Chairman and the Secretary to the CMI education, and the legal advisor to the College are the members.

**Women's Development Cell:** It offers a platform for the empowerment of women. Every year the cell organizes seminars, awareness talks, presentation contests, quiz programmes,





debates, handicraft training, rallies to protest incidents of harassment against women. It has an office in the Ladies' Retiring Room Block.

**Career Guidance and Placement Cell:** It organizes various programmes to make the students employable, under the coordinator ship of a faculty. Coaching classes for bank tests, entry to State and Central services, personality development, interview skills etc. are arranged by the Cell. It also conducts various placement drives especially, to reputed companies. Around three companies from banking services and two from IT sector are regular recruiters of the students. Office of the cell is located in the Chemistry Block.

**Health Club:** A well equipped Multi-gym Health Club is located in the new building. It is provided with all the advanced technology based equipment for health and physical fitness. The College has two more Fitness Centres, in the Department of BPE and at the gents' hostel.

**Canteen, Recreational Spaces for Staff and Students:** A very spacious canteen with common rooms and separate rooms for girls and staff, providing hygienic and tasty food, is the favorite haunt of many. A recreational space is provided under the roof garden with open sides and lavish seating facility for discussion, friendly gatherings, to study or to enjoy leisure time. Space for recreation of staff is made available adjacent to the administrative office with TV and newspapers and other recreational items like Caroms, Chess etc.

**Safe Drinking Water Facility:** The College has installed provision for safe cool drinking water and aqua guard water supply in all blocks.

**Auditorium:** The College has a very spacious Auditorium with plinth area of 850 square meters with balcony, toilets and greenroom. Sophisticated audio visual gadgets are installed for theatrical effects. The College has a Seminar Hall in the main block and a mini Seminar Hall in the Department of Chemistry.

Other facilities are Prayer Hall and Chapel, Staff Quarters and deluxe rooms in hostels for guests, beautiful garden in front of the main building with concrete benches for conducting combined study and group discussions, Offices for NCC, NSS and CSA units.

## **4.2 Library as a Learning Resource**

### **4.2.1 Does the library have an Advisory Committee/? Specify the composition of such a committee. What significant initiatives have been implemented by the committee to render the library, student/user friendly?**

Since Library is the place for disseminating knowledge and information, the role of a committee to give proper direction and recommendation on all matters of its services is vital. The College has a six-member Library Advisory Committee who helps formulate its policies and their implementation. The College Principal is the Chairman of the Committee and the Librarian is its Convener. The Committee has six members including three members of faculty and on students' representative.

The Heads of Departments submit requests for the purchase of books and other materials required as per the curriculum. The Library Advisory Committee evaluates and recommends the implementation of these requests. The Committee meets twice a year and coordinates activities. Policy decisions regarding the updations of the Library with new books and journal are taken in these meetings. According to the availability of funds, fair and need based allocation is made by the Committee.



The following are the initiatives taken by the Committee to make the library student/ user friendly.

- One teaching hour is utilized to familiarize all students with the provisions and activities of the library.
- The working hours of the library have been extended from 8.00 am to 5.00 pm.
- The book transactions are fully computerized and their search has been automated using electronic search system.
- Bar coding system is implemented and issue of books recorded using scanners.
- New arrivals are displayed in separate racks and their lists circulated to all Departments.
- Entry to the library is through biometric system.
- Separate racks are provided for reference books and previous years' question papers.
- Sufficient quantity of books on career and personality development, entrance examinations, is stacked in the Reference Section.
- Books to help students seeking admission to IIT, IIM, CSAT, UPSC, PSC, CA, Banks, Railway, Defense, etc are also made available here.
- INFLIBNET and DELNET services provide for access to journal articles.
- Internet connectivity in 20 PCs and the service of library staff to help in downloading articles required for assignments, projects and research facilitate student centered learning.
- Facilities are provided near library to take hard and soft copies of the articles.
- Separate language-wise racks for magazines and dailies make identification easy.
- Systematically arranged racks for back volumes help the researchers.
- Stock checking is systematically done at the end of every academic year.
- Proper maintenance and painting of cupboards and racks help preserve the books.
- Cordial and cooperative attitude of the library staff to students is noteworthy as it creates a user-friendly atmosphere.
- Timely Recommendations are made to meet the study accessories required for the new programmes.
- Feedbacks from users help to make the library more user friendly.

#### **4.2.2 Provide details of the following:**

- Total area of the library : 2,112 Sq. Mts.
- Total seating capacity : 300.
- Working hours
  - On working days: 8.00 a.m to 5.00 p.m.
  - Before examination days: 8.00 a.m to 5.00 p.m.
  - During examination days: 8.00 a.m to 5.00 p.m.
  - During vacation: 9.00 a.m to 4.00 p.m.

#### **Layout of the library (individual reading carrels, lounge area for browsing and relaxed reading, IT zone for accessing e-resources).**

The library, the heart of the College, is in a two storied building. The baggage cupboard is close to the entrance. The ground floor, a common place with seating capacity of 300, provides ample space for general reading. It is furnished with traditional teak wood furniture like tables, chairs, and benches and is properly ventilated and naturally lit.

- Current newspapers and magazines and their back volumes in the ground floor.
- New arrivals and brochures of admission to national level higher education institutions are displayed at the entrance itself to attract the attention of readers.
- Internet connectivity with DELNET and INFLIBNET provides access to 20 PCs and internet café with unlimited download facility.



- Separate Seating is made for the faculty and PG students.
- Counter for books of reference and CD-ROM rack, previous years' University examination question, syllabi of various programmes, current and back volumes of journals and periodicals are clearly demarcated to avoid confusion.
- Computer-based self searching facility eases checking the availability of books.
- Books for competitive examinations like CSAT, NET/ SET, IIT Entrance, CAT, MAT, GMAT, PSC, UPSC, BANK TEST, LIC, CA, RAILWAY, DEFENCE etc. are much in demand among students.
- Subject-wise racks of books are arranged in the first floor systematically.
- The issue and return of books are recorded in the first floor.
- All books are bar coded and their issues recorded using scanners.
- Fully computerized transaction of books accelerates the services of the library.

**4.2.3 How does the library ensure purchase and use of current titles, print and e-journals and other reading materials? Specify the amount spent on procuring new books, journals and e-resources during the last four years.**

At the beginning of every academic year the Heads of the Departments convene a meeting and the lists of books required according to the curriculum are submitted to the librarian. The Library Advisory Committee discusses the requirements and presents the final list in the Staff Council. The Librarian is an ex officio member of the Staff Council. The staff council earmarks the fund to be spent for the purchase of the new titles according to the availability of funds.

On an average 1,000 new books are added to the library every year. The following table shows the amount spent on procuring new books, journals, e-resources, dailies and subscription for network consortia.

Library Holdings	Year 2010-'11		Year 2011-'12		Year 2012-'13		Year 2013-'14	
	Nos	Total Cost	Nos	Total Cost	Nos	Total Cost	Nos	Total cost
Text & Subject books	1,545	6,83,747	812	63,898	1235	2,22,747	729	3,19,158
Reference books	113	45,509	14	11,625	47	17,965	74	26,890
Journals/ Periodicals	130	54,075	128	52,177	129	59,874	130	65,615
E-resources (CD's)	26	1,860	24	1,010	24	1,010	24	1,120
Any other (Dailies)	7	6,665	7	5,470	8	6,800	8	7,000
Annual 1. Delnet 2. N List	11,500		11,500		11,500		11,500	
	5,000		5,000		5,000		5,000	

**4.2.4 Provide details on the ICT and other tools deployed to provide maximum access to the library?**

- **OPAC:-** Online Public Access Catalogue search facility is available in the library. One can examine his/her library account details like book fine, books borrowed, details of books in particular title, books written by same author etc. A link from College Website to library accounts is also provided.
- **Electronic resource management for e-journals**  
DELNET / INFLIBNET access is provided.



- **Library Website**  
College Website provides a link to access library exclusively for catalogue searching and to know the library holdings in particular subjects.
- **In house/remote access to publications**  
Access to DELNET/INFLIBNET through personal ID.
- **Library automation**  
All books are bar coded and transactions are fully computerized. The issue and return of books are recorded using scanners. The entry to the library is recorded using biometric scanner.
- **Total number of computers for public access: 20**
- **Total number of Printers for public access : 2**
- **Institutional repository internet bandwidth/speed :2 mbps**
- **Participation in resource sharing networks/ consortia (like inflibnet)**  
Library is a subscriber of DELNET/INFLIBNET journals

#### 4.2.5 Provide details on the following items.

- Average number of walk-ins per day : 500
- Average number of books issued and returned per day : 200
- Ratio of Library books to students enrolled : 35:1
- Average number of books added during the last three years : 3500
- Average number of logins to OPAC per day : 250
- Average number of login to e-resources per day : 50
- Average number to e-resources downloaded/printed per day : 20
- Number of information literacy trainings organized. : 18
- Details of weeding out of books and other materials  
News papers, magazines and worn out text books (approx 25 to 40) are weeded out in a year.

#### 4.2.6 Give details of the specialized services provided by the library

- **Manuscripts:** Magazines prepared by NSS and CSA, Department of Malayalam.
- **Reference:** The Reference desk deals with issue of question bank, syllabi, back volumes of journals, periodicals and books. Apart from the general and subject reference books, career oriented books for CSAT, NET/JRF, IIT Entrance, CAT, MAT, GMAT, C-MAT, PSC, UPSCE, BANK TEST, LIC, CA, RAILWAY, DEFENCE examinations etc. are also ready for reference. Separate spaces are provided for staff and PG students
- **Reprography:** Reprographic facility is arranged adjacent to the library.
- **Inter Library Loan Service:** Inter Library Loan is possible through DELNET consortia. Outsiders with authorization letters are also offered reference and reprographic facility.
- **Information deployment and notification:** Display of new arrivals and brochures of various national and prestigious institutions, their notification of admission to higher education programmes are exhibited near the entrance to the library for the information of students.
- **Download:** Facility for downloading and copying of relevant articles is allowed for students and staff.
- **Printing :** Printing facility is provided adjacent to the library
- **Reading list/ bibliography compilation:** Subject-wise bibliography compilation and cataloguing is done.
- **In-house/remote access to e-resources:** In house: OPAC.



Remote Access: DELNET / INFLIBNET and other open source journal.

- **User orientation and awareness:** The Librarian gives orientation classes to the new comers at the beginning of the academic year about the types of books, book classification and cataloging, sequence of classification numbers, shelf arrangements, call number, book shelving, information regarding library software, different search strategies and the facility to examine library account.
- **Assistance in searching data base:** Library gives assistance to students and staff in searching database using the library software. They also assist students to access e-journals and e-books from internet and DELNET /INFLIBNET subscriptions.

#### **4.2.7 Enumerate on the support provided by the library staff to the students and teachers of the college.**

The functions of the library are divided into three sections to render easy service to the users: Reference Section, General Reading Hall and Circulation and Stack Room. Ample support is extended to the users in all these sections,

- Reference Section:
  - Previous years' question paper compiled as question banks.
  - Arrangements for syllabi reference in each discipline.
  - Immediate rectification of misplaced books in racks for ready reference.
  - Provision for issuing back volumes of Journals/Periodicals.
  - Availability of CD-ROM and its catalogue.
  - Easy identification of reference books through printed catalogues.
  - Quick location of books through Shelf Guide List.
  - Separate book shelves for Civil Service & NET/JRF Coaching.
- General Reading Hall:
  - Display of new titles and brochures for students seek admission to national and prestigious institutions.
  - Procurement of new books on demand.
  - Help for browsing DELNET and INFLIBNET articles.
  - Timely procurement of new books, quick cataloguing to get for circulation.
  - Permission for outsiders are allowed to use the library.
  - Assistance to take hard and soft copies of articles
  - To exhibit new titles and brochures for students seek admission to National and prestigious institutions.
  - Procurement of new titles on demand.
  - Orientation to new comers regarding the use of library facilities and it functions.
  - Assistance to familiarize OPAC and its searching steps.
- Circulation & Stack Room:
  - Issue and return of books through barcode scanners with specific rules for the period of retention.
  - Fine on delayed return to ensure timely return.
  - Section-wise arrangements of PG, UG, and General Books for easy location.
  - Subject-wise arrangement of book shelves.
  - Shelf Guide lists for speedy identification of location.
  - Daily replacement of returned books.
  - Periodical shelf cleaning and dust removal to ensure safety of books.
  - Timely binding of books in dilapidated condition
  - Replacement of unreadable barcode tags by new ones.

#### **4.2.8 What are the special facilities offered by the library to the visually/physically challenged persons? Give details.**

The library issues books for differently-abled students without his/her presence in the library. The Library maintains Braille books for visually challenged students. Special care is extended for differently-abled students so that they can avail its optimum use including



special seating arrangements. The special facilities made available for differently-abled students are given in 4.1.4.

**4.2.9 Does the library get the feedback from its users? If yes, how is it analyzed and used for improving the library services. (What strategies are deployed by the library to collect from users? How is the feedback analyzed and used for further improvement of the library services?)**

The practice of collecting feedback from the users of library is followed to improve its service. A prescribed questionnaire is used for this purpose. The responses are scrutinized and analyzed to enhance the facilities and render better service. The extension of library service time from 8.00 am to 5.00 pm is the result of such an endeavor. The extension of the library building to provide reading facility with cubicles is under consideration.

**4.3 IT Infrastructure**

**4.3.1 Give details on the computing facility available (hardware and software) at the institution.**

The College provides IT infrastructure and computational facilities which have opened the doors to online search engines, making dissemination of knowledge in less strenuous. The IT sector of the College is overspread through all Departments with adequate number of computers, laptops, allied accessories and internet connectivity. Apart from this, the College has four well equipped Computer Labs with sophisticated softwares and a language lab with modern audio visual equipment. The operating systems used are Windows, Ubuntu and Linux. The detailed configuration of computers used in various Departments and computer labs is as follows.

Sl. No.	Department	No. of computers	Configuration
1	Office	16	Intel Dual Core Processor, 1 GB RAM, 250 GB HDD, 18.5'' LCD Monitor, Multi-media Keyboard and Optical Mouse
2	Principal's Office	1	Intel Dual Core Processor, 1 GB RAM, 250 GB HDD, 18.5'' LCD Monitor, Multi-media Keyboard and Optical Mouse
3	IQAC	2	i. Intel Dual Core Processor, 1 GB RAM, 250 GB HDD, 18.5'' LCD Monitor, Multi-media Keyboard and Optical Mouse ii. Intel Core i3 Processor, 4 GB RAM, 500 GB HDD, 18.5'' LCD Monitor, Multi-media Keyboard and Optical Mouse
4	English	1	Intel Dual Core Processor, 1 GB RAM, 250 GB HDD, 18.5'' LCD Monitor, Multi-media Keyboard and Optical Mouse
5	Mathematics and Statistics	3	Intel Dual Core Processor, 1 GB RAM, 500 GB HDD, 18.5'' LCD Monitor, Multi-media Keyboard and Optical Mouse
6	Malayalam	1	Intel Dual Core Processor, 2 GB RAM, 250 GB HDD, 18.5'' LCD Monitor, Multi-media Keyboard and Optical Mouse
7	Physical Education	1	Intel Dual Core Processor, 1 GB RAM, 250 GB HDD, 18.5'' LCD Monitor, Multi-media Keyboard and Optical Mouse



8.	Economics	1	Intel Duel Core Processor, 2 GB RAM, 500 GB HDD, 18.5'' LCD Monitor, Multi-media Keyboard and Optical Mouse
9.	Physics	2	AMD Athlon Processor, 1 GB RAM, 250 GB HDD, 18.5'' LCD Monitor, Multi-media Keyboard and Optical Mouse
10.	Physics Lab	6	HP Workstation with 6 nodes; Intel Duel Core Processor, 1 GB RAM, 250 GB HDD,18.5'' LCD Monitor, Multi-media Keyboard and Optical Mouse
11.	Library	20	N Computing systems with 1 server and 15 nodes; Intel Cord Core Processor; 4 GB RAM; 500 GB HDD;18.5'' LCD Monitor; Multi-media Keyboard and Optical Mouse,Intel Duel Core ,2GB Ram,250 GB HDD etc..
12.	Botany	1	Intel Duel Core Processor, 2 GB RAM, 250 GB HDD, 18.5'' LCD Monitor, Multi-media Keyboard and Optical Mouse
13.	Commerce	2	Intel Duel Core Processor, 2 GB RAM, 500 GB HDD, 18.5'' LCD Monitor, Multi-media Keyboard and Optical Mouse
14.	Zoology	5	Intel Duel Core Processor, 2 GB RAM, 500 GB HDD, 18.5'' LCD Monitor, Multi-media Keyboard and Optical Mouse
15.	History	1	Intel Duel Core Processor, 2 GB RAM, 500 GB HDD, 18.5'' LCD Monitor, Multi-media Keyboard and Optical Mouse
16.	Chemistry	1	Intel Duel Core Processor,1 GB RAM, 250 GB HDD, 18.5'' LCD Monitor, Multi-media Keyboard and Optical Mouse
17.	Chemistry Lab	2	Intel Pentium 4 Processor, 1 GB RAM, 120 GB HDD,18.5'' Monitor, Multi-media Keyboard and Optical Mouse
18.	Geology	2	Intel Duel Core Processor, 2 GB RAM, 1 TB HDD, 18.5'' LCD Monitor, Multi-media Keyboard and Optical Mouse
19.	GIS Lab	12	Intel Duel Core Processor, 1 GB RAM, 250, 500 GB HDDs, 18.5'' LCD Monitor, Multi-media Keyboard and Optical Mouse
20.	English Self Financing	1	Intel Duel Core Processor, 2 GB RAM, 500 GB HDD, 18.5'' LCD Monitor, Multi-media Keyboard and Optical Mouse
21.	Computer Science Lab	60	Intel Core 13 Processor, 4 GB RAM, 500 GB HDD, 18.5'' LCD Monitor, Multi-media Keyboard and Optical Mouse
22.	Computer Lab (Commerce Block)	24	Intel Duel Core Processor, 2 GB RAM, 500 GB HDD, 18.5'' LCD Monitor, Multi-media Keyboard and Optical Mouse
23.	Language Lab	21	Intel Duel Core Processor, 1 GB RAM, 250 GB HDD, 18.5'' LCD Monitor, Multi-media Keyboard and Optical Mouse



24.	Computer Lab (BCA)	20	N Computing, Intel Xenon 31220 Processor, 16 GB RAM, 1 TB HDD, 18.5'' LCD Monitor, Multi-media Keyboard and Optical Mouse
25.	Computer Lab for College and Off-Campus	24	Intel Dual Core Processor, 1 GB RAM, 250 GB HDD, 18.5'' LCD Monitor, Multi-media Keyboard and Optical Mouse
26.	Stand by Desktops for Department purposes	16	Core2Duo, 4GB RAM, 500 GB HDD, 18.5 LED etc.
27.	Audio System Facilities		Audio System Facilities; 4.1 sound System, JBL 7.1 Sound System, 1000PMPO with 2.1 System, 400 W Amplifier (2 Numbers) with 6 Speakers, 400 W with 2 Speakers.

Total number of Computers including Laptops:  $246 + 18 = 264$ .

- Computer-student ratio: 1:8.
- Stand alone facility: 250.
- LAN facility: All Departments are inter connected with LAN for file sharing.
- WiFi facility : Available in all Departments, Seminar hall and Office
- Licensed software : Microsoft Licensed Softwares - Windows Versions, Microsoft Office, Linux
- Number of nodes/ computers with Internet facility
- Any other :  
8 LED TVs; 48-52'', Wi-Fi Facilities, LAN Facilities, Smart Options, Built in Speakers, 24 Projectors, LCD Lamps, Short and Long options, USB Connectivity and USB Port, VGA, HDMI audio video, 30 Laser Printers; All in One A3 & A4 Scanning, Photo Copier, Dual Options, 1 Dot Matrix Printer, Bill Printing

#### **4.3.2 Detail on the computer and internet facility made available to the faculty and students on the campus and off-campus?**

- Along with adequate number of computers and LCD projectors each Department is provided with internet connectivity with localized WiFi facility.
- The Faculty and students are provided with computers for doing any official assignments of the College or for presenting papers in seminars, conferences etc.
- Some of the PG Departments have multimedia LED TV with Smart option.
- For easy data transfer among Departments, Administrative Office, IQAC Office and Principal's Office, LAN connectivity is made use of.
- The College has four Computer Labs with sufficient number of PCs and other gadgets.
- All the Computer Labs have internet connectivity.
- The library has 20 computers with facility to access journal articles.
- Browsing facility is provided exclusively for students at internet café and library.
- Most of the faculty have internet connectivity at home in the employee' tariff of BSNL network.
- In order to improve the e-awareness among the faculty, IQAC has initiated a Laptop scheme in collaboration with DELL computers. This provision was benefitted by nearly 20 teachers





#### 4.3.3 What are the institutional plans and strategies for deploying and upgrading the IT infrastructure and associated facilities?

In order to enhance the facilities for technology based teaching and learning, the Institution gives prime concern to improve its IT infrastructure. According to the requests from Departments, the Staff Council plans the utilization of available funds in this direction. One computer technician with an assistant are appointed for maintenance of computers. Additional help is sought from external experts if required. The upgradation plan in infrastructure and associated facilities involves following things.

- Upgrading/purchasing high configuration systems.
- Promoting the use of open source software like Ubuntu.
- Linking Broadband speed hike.
- Using Route based security configuration (Single admin).
- Introducing online internal examination system.
- Augmenting E-learning resources and E books library.
- Setting up video library.
- Commencing online Spoken English Classes.
- Installing optic fiber cables.
- Increasing the number of ICT enabled classrooms.
- The rationale behind the upgradation of IT infrastructure
- Commencement of new programmes.
- Changes in the curriculum of IT related subjects.
- Requirements reported by the Departments.
- Enhancement of quality in teaching and learning.

Since ICT is an emerging and essential topic, the College has re-conceptualized its Vision of higher education by empowering the students through skill based learning. Replacing the conventional ritual of rote learning, innovative methods are built in through ICT enabled curriculum. Therefore its strategy is to supplement all the infrastructure facilities to foster the same.

#### 4.3.4 Provide details on the provision made in the annual budget for procurement, up gradation, deployment and maintenance of the computers and their accessories in the institution (Year wise for last four years)

Sl. No	Year	Procurement Rs.	Up gradation	Deployment	Maintenance Rs.
1.	2010-11	14,33,973	16000	----	54,793
2.	2011-12	5,68,300	----	----	----
3.	2012-13	10,99,100	11797	----	97,160
4.	2013-14	4,90,000	----	----	----

#### 4.3.5 How does the institution facilitate extensive use of ICT resources including development and use of computer-aided teaching/ learning materials by its staff and students?

The College has provided abundant infrastructural facilities required for ICT enabled teaching. The curriculum designed by the university essentially necessitates the maximum utilization of ICT facilities. The Staff and students make extensive use of these facilities in the following ways

- Web based topics for the project work of all PG programmes.
- Topics of seminar as power point presentation on web based study materials.
- Application of software for data analysis as a part of project report.



- Assignments based on journal articles and other e-resources.
- Online submission of assignments by students.
- Lecture notes as e-mail attachments.
- Thematic power point presentations in connection with celebration of days of national importance.
- *IT Vijnan* programme for all students.
- Add-on course on Web designing.
- Paper Presentation Contests for all PG programmes on the topics of their project work.
- The College has four well equipped Computer Labs and the facilities are utilized to demonstrate practical sessions on various software and computer packages.
- The ICT facilities are also utilized by students to make documentary films under the auspices of the Film Club.

#### **4.3.6 Elaborate giving suitable examples on how the learning activities and technologies deployed (access to on-line teaching learning resources, independent learning, ICT enabled classrooms/learning spaces etc.) by the institution place the student at the centre of teaching-learning process and render the role of a facilitator for the teacher**

The curriculum offered by the University give due importance to the learner-centered teaching learning process rather than the conventional monologue approach of the teacher in the class room. However, the role of a teacher is not ignored but reiterated as a facilitator. This student centric teaching learning process includes web based assignment topics, seminar presentations, group discussions, doubt clearing sessions, etc. In this paradigm shift, the facilitator makes students utilize the technologies deployed by the Institution. All final year UG and PG class rooms are provided with ICT facilities. Some of the PG classes have multimedia TV Display monitor also. The facilitator provides various platforms to optimize student participation in technology based learning.

- Cent percentage computer literacy is ensured through the *IT Vijnan* Programme.
- The easy access to internet facility has made the students less teacher dependent.
- Audio visual aids are used in the teaching process.
- Use of educational videos, demonstration of laboratory experiments augments the process of student centric.
- The debates and group discussions are arranged to motivate independent learning.
- The ICT facilities like DELNET and INFLIBNET access provided in the library enable students to collect study materials of their choice and make them more student centric and enthusiastic in the learning process.

#### **4.3.7 Does the Institution avail of the National Knowledge Network connectivity directly or through the affiliating university? If so, what are the services availed of?**

Presently the College does not have National Knowledge Network connectivity directly or through University. Some Departments utilize the NPTEL facility. However, the College is ready to take the initiative to join in the network, if such opportunities are created.

### **4.4 Maintenance of Campus Facilities**

#### **4.4.1 How does the institution ensure optimal allocation and utilization of the available financial resources for maintenance and upkeep of the following facilities (substantiate your statements by providing details of budget allocated during last four years)**

The College has constituted the different committees to ensure optimal utilization of the available financial resources. Moreover, one faculty is entrusted to oversee its effective and timely utilization. The Committees are;

- College Governing Body.



- The College Staff Council.
- The College Planning Board.
- Financial Management Committee

**Statement of budget allocated under different heads during last four years**

Sl. No.	Head of Expense	Year	Amount of Allocation	Amount utilized	Source
1.	Building	2010-11	55,00,000	10,00,000	UGC
		2011-12	60,00,000	83,62,932	UGC, Management
		2012-13	2,50,000	24,48,944	UGC, Management
		2013-14	10,50,000	1,30,87,699	Management
2.	Furniture	2010-11	1,00,000	1,03,245	Management
		2011-12	1,50,000	1,47,169	UGC, Management
		2012-13	4,50,000	4,61,579	UGC/PD, Management
		2013-14	1,00,000	1,31,762	UGC/PD
3.	Equipment	2010-11	2,50,000	25,58,391	UGC/PD
		2011-12	2,00,000	2,10,589	UGC/PD
		2012-13	5,00,000	2,92,663	UGC
		2013-14	2,50,000	4,99,263	UGC/PD
4.	Computer	2010-11	14,00,000	14,33,973	UGC
		2011-12	6,00,000	5,68,300	UGC
		2012-13	13,00,000	13,14,650	UGC, Management
		2013-14	13,00,000	13,14,650	UGC, Management
5.	Vehicle	2010-11	-----	-----	----
		2011-12	-----	1,80,000	Management
		2012-13	-----	-----	-----
		2013-14	-----	-----	-----
6.	Any other	2010-11	10,00,000	10,04,890	UGC
		2011-12	12,50,000	12,73,741	Management
		2012-13	8,00,000	8,44,984	Management
		2013-14	45,00,000	4,97,900	Management

**4.4.2 What are the institutional mechanisms for maintenance and upkeep of the infrastructure, facilities and equipment of the college?**

Since the College is completing sixtieth years of service, maintenance of buildings and other infrastructural facilities is essential. Though the Governmental grants are minimal, the College has an effective mechanism for the maintenance and upkeep of the infrastructure facilities and equipment.

- The Institution makes ardent efforts to procure funds required for maintenance of its infrastructure facilities from various sources.
- It utilizes these funds effectively with a long term planning.
- New projects are implemented in a time-bound manner under the leadership of the Principal and with the support of the faculty.
- The College has entered in to an Annual Maintenance Contract with service providers for lab equipment, computers and other computer accessories.
- Through interactions with various cross sections of stakeholders, the Management collects the list of requirements of the Institution and prioritizes them according to the schemes available for implementation. For example, Construction of Ladies 'Hostel Annex, toilets, Health Club, improved facilities in gents' hostels, beautification of the campus, etc. are thus carried out.
- The service of one computer technician and an assistant is utilized for the maintenance of computers and allied accessories.



- Many of the computers in the College are under the onsite warranty and the services are availed as and when reported.
- Costly equipments are serviced by authorized service engineers.
- The Management has appointed gardeners for the maintenance of Zoo and Garden. Sweepers clean the campus and class rooms. Watchmen on twenty four hour vigil ensure the overall security of the campus. A supervisor is also appointed for general maintenance.
- The College has workshops and work-sheds in the campus providing service of skilled laboureres like electricians, plumbers and carpenters, masons for maintenance and repair works of all sorts.
- The appointments of these labourers are both on permanent and contract basis.
- Funds from the Management, the Government, the faculty, fee from students, contributions from PTA and well wishers are utilized for this purpose.
- In value education classes students are motivated to maintain a clean and green campus.
- NSS and CSS organize one-day works to keep the class rooms and campus clean

#### **4.4.3. How and with what frequency does the institute take up calibration and other precision measures for the equipment/ instruments?**

The equipment/instruments are calibrated at least once in a year, or as and when required depending on the occurrence of serviceable troubles. The services of in-house technician are utilized. Whenever the troubles cannot be rectified by them, the service of skilled personnel from outside are solicited in consultation with the suppliers. Apart from this, instruments are also frequently checked and calibrated by the concerned faculty. If the instrument is within the warranty period, it is returned to the suppliers for calibration service or replacement.

#### **4.4.4 What are the major steps taken for location, upkeep and maintenance of sensitive equipment (voltage fluctuations, constant supply of water etc.)?**

Regular and stabilized power supply is ensured for the smooth function of all computers and equipment in laboratories. Electrical distribution points are regularly checked and adequate safety measures are taken for their protection as noted below.

- A lightning arrester ensures protection of electrical and other sensitive equipment.
- All sensitive equipment/instruments and computers are supported with UPS systems, to minimize electric fluctuation, and all Computer Labs have back up facility.
- Three high capacity generators (two 6KV generators and one 10 KV generator) and solar panels assure uninterrupted power supply.
- Power saving system using solar panels is installed in hostels also.
- Proper functioning of UPS system is ensured through annual maintenance contract.
- Most of the sensitive laboratory equipments are located in ground floor to minimize the vibration.
- Rain water harvesting is made by collecting rain water from building roof to water tanks at suitable places.
- Saplings are planted in the campus to avoid soil erosion
- *Thadayanans* are constructed to prevent flow of water and allow it to drain down in the garden itself.
- Thorough checking of electronic gadgets by technicians every month.

The College is the recipient of many awards instituted by agencies like Energy Management Centre, Department of Power, Government of Kerala, Kerala State Electricity Board, Kerala State Biodiversity Board and University of Calicut. These laurels demonstrate the efforts taken by the Institution for conservation of power, eco-friendliness and biodiversity.



Computer Lab



Language Lab



Ladies Hostel



Gents Hostel



Fitness Centre



Solar Power System





## CRITERION V STUDENT SUPPORT AND PROGRESSION

The excellence of any institution is propagated to the public mainly through the performance of the major stakeholder - the students. A strong student support mechanism is essential to strengthen the curricular and extracurricular talents of students. The College offers an ideal environment for students, not only to excel in academics, but also to imbibe cultural, moral and social values, and thereby, to become the champions of its Vision and Mission.

### 5.1 Student Mentoring and Support

#### 5.1.1 Does the institution publish its updated prospectus/handbook annually? If 'yes', what is the information provided to students through these documents and how does the institution ensure its commitment and accountability?

- The College updates its prospectus and Handbook every year. The prospectus, prepared in consultation with the Admission Committee, includes a brief profile of the College, its Vision and Mission, programmes, admission criteria with procedures and fee structure.
- The College Handbook is compiled in consultation with the IQAC and the Handbook Committee publishes it at the beginning of every academic year. It gives the Vision and Mission of the College, its brief profile and chronicle, details of the Departments and programmes offered, teaching and non teaching staff. It also contains the following information:
  - Motto of the College and its educational policy.
  - Managers' and Principals' succession list.
  - Programmes of study and curriculum of UG and PG courses.
  - Department wise faculty, non-teaching staff, retired faculty and their contact numbers and e- mail addresses.
  - Admission rules, fee structure and attendance rules.
  - General code of discipline.
  - Financial Assurances, Endowments, Scholarships and Students' Aid Fund.
  - Various curricular and co-curricular bodies, their objectives and coordinators.
  - Library rules.
  - Infrastructural facilities.
  - Other Student Support Services.
  - Extension activities.
  - Academic calendar, expected month- wise teaching days and tentative days of internal exams.
  - Alert against ragging and details of the Anti- Ragging Committee.

Copies of the Handbook are provided to all staff members and students at the beginning of the academic year. It is also uploaded in the College Website. Besides, the College conducts an orientation programme for freshers and their parents on the commencement of the classes, and assures them of its commitment. The Principal orients the newly appointed teachers regarding the commitment of the Institution.

The College also publishes an Annual Magazine, Annual report and a Newsletter. In the monthly NEWS from IQAC DESK the various programmes being organized in the College, and achievements of students and staff are published.



Most of the students hail from rural sectors of the Irinjalakuda municipality, and as stated in the Vision of the College, their upliftment is the primary commitment of the Institution. The Institution is fully conscious of its responsibility and accountability towards the students and this is reflected in its manifold activities. Students realize the commitment of the Institution through the Handbook and prospectus. The feedback collected from the stakeholders at different levels, at the end of the academic year, ensures the accountability of the Institution. The feedback mechanism also enables to identify the areas that need to be improved.

**5.1.2 Specify the type, number and amount of institutional scholarships /freeships given to the students during the last four years and whether the financial aid was available and disbursed on time?**

The College offers many scholarships and free-ships to the meritorious and deserving students and disburses them on time through the Scholarship Section of the Administrative Office. It also extends financial help to economically weak students.

- Students, who are admitted on merit basis in the self-financing programmes, are offered 30% fee concession if their annual income is below Rs. 25,000/- .
- Students in self-financing programmes, reported as deserving candidates by their class teachers, need pay only the fee equivalent to the aided programme.
- The deserving students are exempted from the hostel mess fee.
- The Management continuously monitors their academic performance. The Management also offers several supports for SC/ST students like free noon meals, fee discounts. etc.
- The College has instituted a CCRF from 2012 onwards, for research scholars who are not benefited by any other fellowships.
- The well-wishers of the College have instituted several endowments to encourage and support the meritorious performers.
- The Management has decided to institute scholarships for winners in national and state level sports and games competitions.

The following table gives details of Institutional scholarships/free-ships disbursed during the last four years.

Scheme		2010-11	2011-12	2012-13	2013-14
Free-ships	Amount	2,50,000	2,50,000	3,75,000	5,50,000
	No. of Students	10	12	15	22
Financial aids	Amount	48,000	1,12,500	1,57,500	4,91,500
	No. of Students	6	15	21	70
Free noon meals	Amount	5600	16800	14700	7680
	No. of Students	2	6	6	4
Endowments and Institutional Scholarships	Amount	85300	83400	51600	74375
	No. of Students	115	106	76	84
PTA Aids	Amount	1,36,500	1,27,400	1,43,000	1,58,600
	No. of Students	105	98	110	122
Alumni Aids	Amount	43260	22715	14025	---
	No. of Students	10	7	4	---





### 5.1.3 What percentage of students receive financial assistance from state government, central government and other national agencies?

The scholarship section of the College Office informs the students about the scholarships instituted by various agencies. Around 10% of our students have received scholarships from the State Government, and 60% of students, from the Central Government/National agencies. The details of various scholarships enjoyed by our students are listed below:

Scheme	2010-11	2011-12	2012-13	2013-14	Total No. of beneficiaries
Inspire Scholarship	3	5	8	6	22
Central Sector Scholarship	62	52	44	60	218
Hindi Scholarship	3	6	3	3	15
Post metric scholarship	52	33	37	74	196
Single Girl Child Scholarship	----	4	5	2	11
UT Lakshadweep	20	15	14	15	64
Suvarna Jubilee Merit	24	24	19	16	83
State Merit Scholarship	12	18	17	16	63
Kerala State Higher Education Scholarship	11	28	35	44	118
C H Muhammed Koya Scholarship	---	---	4	10	14
Physically Handicapped	---	---	---	1	1
Temple Entry Proclamation	---	---	2	---	2
KPCR and FC	370	370	376	345	1461
OBC and SEBC	137	135	135	136	543
OEC	36	41	39	33	149
ST	7	9	15	19	50
SC	270	265	281	304	1120
Total	1007	1005	1034	1084	Average %
Percentage	65.5	64.1	63.9	56.6	62.5

### 5.1.4 What are the specific support services/facilities available for students from SC/ST, OBC and economically weaker sections

The Government rules stipulated in the admission procedure, marks relaxation, stipends, free-ships etc. for the SC/ST and economically backward sections are strictly adhered to by the College. The Management gives special attention to the students from weaker sections.

- The Scholarship Section conveys timely information regarding all the available financial support through the notice board and public announcement system, and ensures the disbursement of different grants from the Government such as stipend, amount for study tour, hostel mess fee etc. to the eligible students.
- Students from SC/ST and economically weaker sections are exempted from the contribution to PTA fund.
- In case of Governmental delay in the disbursement of stipends for SC/ST students, the Management advances their fees, thus helping them to tide over their financial constraints.
- For academic support, the Institution offers remedial classes, coaching classes for competitive examinations and programmes through Equal Opportunity Cell.



- The students of the Commerce Department offer study materials to poor students, using the fund raised by collecting waste paper from various Departments and selling it for recycling.
- **Students with physical disabilities**
  - A Grievance Redressal Cell takes special care of differently-abled students.
  - Classrooms of differently-abled students are shifted to the ground floor and ramps with handrails and wheelchairs are provided to facilitate their easy and comfortable movement.
  - The Management gives 50% concession in hostel mess fee for financially weaker and differently-abled students.
  - The College ascertains the availability of various scholarships, eligible for differently-abled students.
  - To meet justice to such students, reservation in the admission process as per the university norms is strictly followed.
  - Such students are provided the eligible extra time and the help of scribes for appearing for examinations with permission from the University.
- **Overseas students**

Presently, the College does not have any overseas students. However, students from other states and Lakshadweep study in the College.
- **Student participation in various competitions/national and international**

The Fine Arts Committee under the coordinator-ship of a faculty, gives proper directions to students participating in cultural competitions organized inside and outside the College. Our College is a frequent winner in the University level arts competitions. Moreover the College has excellent track records in Sports competitions. Every year a number of students secure prizes at University, State and National level competitions. (The achievements of students in arts and sports competitions at various levels are given in 5.3.2)

  - To promote the creative and innovative talents of students in cultural activities, platforms are created to present their talents in various meetings of the College community..
  - The assistance of paid trainers is sought to train students for the cultural competitions.
  - Financial support is extended by the College Management and the faculty to meet the expenses of participation in the competitions.
  - To boost the morale of the students, meetings are organized to congratulate the winners and their details with photos are displayed on the IQAC News Board. They are also presented with mementos.
  - The faculty accompany students to the competition venues.
  - Students are exempted from attending class and granted duty leave on the days of practice and competitions.
- **Medical assistance to students: health centre, health insurance etc.**

The College has a sick room stocked with necessary medicines and first aid materials. In the hostels, the wardens take special care of the ailing students. Every year a routine medical checkup for all students is provided with help of a general physician. Awareness seminars on health issues and medical camps are conducted in the Campus. Financial assistance offered by the Sports Council is utilized for the medical expenses of sports students. In some classes, students have generously contributed to raise funds to help their classmates suffering from fatal diseases. Even though the College has not appointed any medical officer on the campus, its proximity to well equipped hospitals helps get the services of qualified doctors on call. In emergencies, students are taken to neighbouring hospitals accompanied by the faculty. Many of the alumni work as physicians in the



neighbouring hospitals and clinics and the College has made an informal arrangement to get their service in emergency situations. All students are covered by a Group Insurance scheme in which they can get the reimbursement of hospital expenses with stay of at least 24 hours due to accidents.

➤ **Organizing coaching classes for competitive exams**

The Career Guidance and Placement Cell in the College, helps students to prepare for various competitive examinations. The Cell organizes coaching classes for Bank tests, entry to services in State and Central sectors, Civil Services Examination, UGC–NET/JRF Examination, Common Proficiency Test, etc. The Cell also organizes awareness talks on various job oriented programmes, and trainings in soft skill development.

➤ **Skill development (spoken English, computer literacy, etc.,)**

The Add-on courses offered by various Departments are targeted at developing the skills of students. Students are encouraged to attend such programmes and the classes are scheduled before/after the regular working hours to ensure maximum participation. To improve the language proficiency of students, an Add-on course in Communication Skills is conducted by the Department of English. In order to achieve complete computer literacy in the Campus, every year all first year students undergo *IT Vijnan* Programme. The College is offering the State Government sponsored Skill Training programme – ASAP from 2013 onwards. The College has many extracurricular bodies like Music Club, Adventure Club, Dance Club, Film Club, Drama Club, Debate and Literary Club, Drawing and Painting Club and the umpteen programmes conducted every year serves to improve the innate talents of students.

➤ **Support for “slow learners”**

Slow learners are identified through their marks in the qualifying examination, the personal contact of the class teachers with the students and their performance in the internal exams. Availing financial support provided by the UGC, the teacher in charge of remedial coaching, coordinates the conduct of classes for weaker students, including students in the SC/ST category. The class teacher through frequent mentoring attempts to uplift them to the mainstream. Solving of University Examination question papers of previous years and extra assignments are conducted by several Departments. In the academic year 2014-15 the College launched the “Student Support Programme” with the sponsorship of the Higher Education Department, Government of Kerala. Academically outstanding students are persuaded to co-opt weaker students and assist them in their learning process so that both are benefitted.

➤ **Exposures of students to other institution of higher learning/ corporate/business house etc.**

- Apart from the orientation given to the students in class rooms, visits to industries and field trips are organized to expose students to the emerging areas of higher education.
- Interactions with eminent personalities from higher centres of learning impel them to aim high.
- The Departments depute the students to seminars, workshops and cultural fests organized by other Institutions.
- Quite a few PG students visit institutions of higher learning and carry out their project work utilizing their infrastructural facilities.
- Entrepreneurship training is provided to Economics and Commerce students through industrial visits.
- Placement Consultancy Services are offered by the College for all students.



- The alumni who are placed in different industries help our students by providing exposure and training.

➤ **Publication of Student Magazines**

The College has a Magazine Committee. Under the co-ordinatorship of a faculty and an elected student editor, every year a College Magazine is brought forth. The students are motivated to showcase their literary and artistic talents through these Magazines. Annual reports of Departmental activities, reports of various curricular and extracurricular bodies, Annual Report of the College prepared by the IQAC, University Examination rank holders and achievers and articles of students all find a place in the College Magazine. Some Departments also publish Departmental magazines. For example, Annual publication of Commerce Department entitled “Commerce Herald”.

**5.1.5 Describe the efforts made by the institution to facilitate entrepreneurial skills, among the students and the impact of the efforts.**

The Institution takes special efforts to inculcate entrepreneurial skill among the students. The Entrepreneurship Development Club, formed with this objective, facilitates interaction of students with successful entrepreneurs, industrial visits for carrying out their project work and organizes seminars to inculcate entrepreneurial skills in students, etc. In 2013 a seminar on the topic “Innovation Based Entrepreneurship” was organized with Shri. T. J. James, Director, Innoaction India as the resource person. The efforts of the Institution to promote the entrepreneurial skill of the students has borne rich fruit. For example, many students have become actively involved in their family business. Some of them have started new business ventures. C. J. Online Media Private Ltd., an online advertising company, is one of these. Several students have ventured into the stock market motivated by the Entrepreneurship Club. In order to minimize the use of plastic and to maintain an eco-friendly campus, the NSS and Social Work Department, in collaboration with the Entrepreneurship Development Club has taken the initiative for the production of green items like cloth and paper bags, files, paper pens and ornaments, greeting cards, flower vases, handicraft products, etc. by the students. The Club instilled in the students the impetus to follow the ‘Earn while you Learn’ policy.

**5.1.6 Enumerate the policies and strategies of the institution which promote participation of students in extracurricular and co-curricular activities such as sports, games, Quiz competitions, debate and discussions, cultural activities etc.**

Besides the academic progression attained through class room learning, the College also envisages moulding an enlightened generation through the integral growth of the student community. The College offers ample facilities and opportunities to nurture various talents of students. Numerous extracurricular and co-curricular programmes are organized under the co-ordinatorship of a faculty and students’ representative, through various Clubs, to develop the talents and skills of students. The extracurricular and co-curricular bodies functioning in the College are listed below:

- Fine arts Club
- Quiz Club
- Debate Club
- *Bhoomithrasena* Club
- Women’s Development Cell
- Career Guidance and Placement Cell
- Tourism Club
- Film Club
- Adventure Club



The Fine Arts Club conducts a cultural fest every year and the winners of the same are selected for participation in the zonal and university level competitions. The College is a frequent winner in these competitions. The Quiz Club conducts intradepartmental and interdepartmental quiz competitions for the Ever Rolling Trophy instituted by the OSA. The Club also takes the initiative to send students to participate in the quiz competitions organized by other institutions. In addition to this, many of the Departmental Associations of students conduct quiz competitions every year. The Debate Club organizes debate competitions every year on socially relevant and current topics for the K L Francis Memorial Trophy. The College has Sports teams for men and women in Athletics, Football, Volleyball, Basketball, Hockey, Handball Cricket, Gymnastics, Shooting, Boxing, Body building, Chess, Ball and Shuttle badminton, Lawn and Table Tennis, Archery, etc. An Athletic Stadium with 8 x 400 track, Football Stadium with Gallery and Pavilion, Basketball, Volleyball, Handball and Hockey courts with coaches for each game help boost students' interest in sports. Generally, the strategy of the Institution is to optimize the participation of students in all competitions using all these facilities. With this aim, the following measures are taken:

- The secretaries of various Associations and Clubs are elected along with the Students' Union Election.
- The Principal convenes meetings with the coordinators and student representatives and members of the Clubs and charts the activities for the year.
- Timely intimation about the competitions is done and the services of paid trainers are made available for select items.
- Separate halls, Auditoriums, audio visual aids, ICT facilities, etc. are made available for the rehearsals.
- Duty leave is allowed for students on the days of practice and competition.
- The grant offered by the University towards the conduct of inter collegiate events is timely disbursed. Moreover, the faculty generously contributes towards the expenses for the University level Arts and Sports competitions. The College Management also extends financial support for endeavours like the National Level Presentation Contest-BEACON, organized by the students.
- Students are permitted to participate in quizzes, presentation, debate and speech competitions, with the consent of the Principal and duty leave is allowed on these days.
- The Department of Physical Education conducts intramural competitions in sports and games with maximum student participation.
- Services of professional coaches deputed by Sports Authority of India and similar agencies are sought for the benefit of sports students.
- Sports uniforms and track suits are procured through sponsorship and winners in competitions are befittingly felicitated and encouraged in College level meetings.
- Class teachers take care of additional academic support required by participants in Sports, Games and Arts competitions and classmates are requested to extend necessary help to them.
- Students are paid TA & DA to participate in certain invitation tournaments.
- The Departments make special arrangements for assignment submission and seminar presentations and also conduct retests for absentees due to the participation in various competitions.

In addition to the opportunities created by the Clubs, the College also empowers the students through activities organized by the NSS, NCC and CSA which showcase the talents of students. The Departments conduct various co curricular activities like invited talks, endowment lectures on topics of current relevance and quiz competitions jointly with Associations. Such programmes are planned in the Departmental meetings.



**5.1.7 Enumerating on the support and guidance provided to the students in preparing for the competitive exams, give details on the number of students appeared and qualified in various competitive exams such as UGC-CSIR- NET, UGC-NET, SLET, ATE / CAT / GRE / TOFEL / GMAT / Central /State services, Defense, Civil Services, etc.**

The Career Guidance and Placement Cell shoulders the responsibility of preparing students for different competitive examinations. It organizes coaching classes for Bank tests, for entry to State and Central Services, Training in reasoning, numerical ability and general knowledge. Apart from this, eminent resource persons from various sectors are invited to deliver talks on topics related to emerging job opportunities. The Department of Commerce conducts CPT and IPCC Coaching classes. The Institution also organizes JRF/ NET coaching classes during the summer vacation with the support of UGC. Discussions on common paper and subject wise papers are conducted. Final year PG students and student from outside also take part in these classes. Moreover, PG Departments also take initiative to arrange classes by subject experts. The Institution provides reading and study material in the library especially for preparing various competitive examinations. The College library has well-stocked reading and study materials for preparing for various competitive examinations. Details of study materials available in the library are enlisted below:

Category	Books	Journals / Magazines subscribed	Newspapers
Civil service	173	130	10
NET / SET	269		
Other books	732		

Number of students qualified for various competitive exams

Sl. No.	Examination	Number of Students		
		Trained	Appeared	Qualified
1	UGC - NET	219	156	42
2	UGC / CSIR JRF	85	45	22
3	State/Central Services	228	160	89
4	Bank	208	187	80
5	Civil Services	228	35	Prelim. Exam: 7
6	Others (CAT)	65	38	22

Outstanding performance in UGC/CSIR JRF examination

Sl. No.	Name	Subject	Rank	Year
1.	Ms. Anju V P	Chemistry	84	2012
2.	Ms. Gana P J	Chemistry	83	2012
3.	Ms. Deepthi N U	Chemistry	37	2013
4.	Ms. Jimsy Johnson	Zoology	21	2014
5.	Ms. Reshma K.M.	Zoology	44	2014



**5.1.8 What type of counselling services are made available to the students (academic, personal, career, psycho-social etc.)**

- The role of teacher has been changed to that of a facilitator. Each class is under the special care of a class teacher who plays the roles of mentor and counsellor as well.
  - Academic counselling starts from the day of commencement of classes.
  - Class teachers’ regular follow-up sessions with his/her students motivate them and kindle their academic interest.
  - Class teacher- student -parent interfaces are arranged at the end of semesters to discuss the progress of students and their learning disabilities
  - The Career Guidance and Placement Cell, established in 2001, imparts guidance about job oriented courses through awareness talks, and makes students employable by conducting recruitment trainings and soft skill development programmes.
  - The class teachers identify students with stress and psycho-social issues through frequent teacher – taught interfaces and refer them to the Counselling Centre, if necessary.
  - The College has a Counselling Centre and the service of a full time Counsellor has been provided for the needy students by the Management.
  - The faculty from the Department of Psychology also assist in student counselling.
- The details of services made available to students during the last five years

Category	2010-‘11	2011-‘12	2012-‘13	2013-‘14	2014-15
Personal	13	11	3	8	10
Academic	6	4	2	5	11
Career	1	-	-	4	8
Psycho-social	12	9	10	7	9

**5.1.9 Does the institution have a structured mechanism for career guidance and placement of its students? If ‘yes’, detail on the services provided to help students identify job opportunities and prepare themselves for interview and the percentage of students selected during campus interviews by different employers (list the employers and the programmes).**

The Institution has a very efficient Career Guidance and Placement Cell. It envisages various programmes to sensitize the students about career opportunities and challenges and employability.

- The Cell organizes various programmes like coaching classes for Civil Service Examination, Bank Tests, Computer Awareness Programme, training in Soft Skills, Interview Techniques, Personality Development, Reasoning, Numerical ability, General Knowledge, etc. to improve the employability of students.
- It opened many avenues to conduct placement drives in the College in which students from other institutions also take part.
- It also organizes Career Awareness Talks in collaboration with Schools of Management Studies and Departments in the State.
- Though selected by companies, UG students prefer to go for higher studies. About 55% of the students opt for PG courses. The main occupations chosen by most of the students include teaching in higher educational institutions and schools, banking, insurance and IT. Many students are placed in Infosys, Wipro, TCS, Federal Bank, Goan Institute of Communicative English and many other organizations through campus recruitment events organized by the Cell. Coaching classes for CA/CPT,



UGC/CSIR NET/JRF exams in certain subjects is also given. The following table gives number of students selected through campus recruitment events

Year	Name of Company	No. Students
2013-'14	Federal Bank	1
	Axis Bank	3
	The South Indian bank	26
	IT (Wipro, TCS, Infosys)	26
	Others (Goan Institute, KPMG, Big-Leap)	34
2012-'13	Federal Bank	4
	Axis Bank	2
	The South Indian bank	24
	IT (Wipro)	7
	Others (Goan Institute)	15
2011-'12	Federal Bank	3
	Axis Bank	4
	The South Indian Bank	5
	IT (Wipro)	10
	Others	12
2010-'11	Federal Bank	2
	The South Indian Bank	6
	IT (Wipro)	6
	Others	8

**5.1.10 Does the institution have a student grievance redressal cell? If yes, list (if any) the grievances reported and redressed during the last four years.**

Yes, the College has a Grievance Redressal Cell. It addresses the grievances of all issues related to administration, teaching, learning, evaluation, etc. The students can meet the teachers in charge of the Cell in person, and submit their grievances, or can deposit their complaints in the boxes provided. Also an e-mail ID is created to inform their grievances confidentially. The grievances are looked into and action is taken by the Principal, depending on the gravity of the grievance. The Cell also sees to the redressal of issues outside academic matters. For girl students, there is an additional Cell - Women's Development Cell, to report complaints. The following table gives the grievances reported and the actions taken to redress them. The grievances of the students are also communicated to the Principal through the elected Students' Union.

Sl. No.	Grievances reported	Redressal Solutions
1.	Bus Concession Card	Solved by agreeing to produce College ID card only
2.	Extension of library hours during working days	The Library working hours is extended from 8 am to 5 pm
3.	Eve teasing in the bus	Informed the Police and solved the problem
4.	Inaudibility of the public announcement system	Informed the Principal and got it rectified
5.	More competitions to be conducted on Sports Day, Arts Festival etc	Sports and Arts Days were conducted as desired by the students.





6.	Lack of facilities in the canteen	Started a new cafeteria with new machinery.
7.	Additional ceiling fans and lavatory facilities	More ceiling fans and lavatory facilities were provided.
8.	Provision for Indoor games to be made available	Steps are being taken to construct an indoor stadium.
9.	Demand for spacious Classroom	New class rooms are constructed.
10	Easy access to class rooms for physically disabled students	Ramps with handrails are constructed in each block
11.	Lack of sufficient water taps in the campus	New water taps are fitted in the key places of the campus
12.	Lack of seating facilities in the garden and near the canteen	The concrete slabs in the garden were renovated and moulded chairs and tables were fixed near the canteen
13.	A tea break in the fore noon session	Class hours in the forenoon session reshuffled so as to have a tea break of 15 minutes after the first hour
14.	A bridge between Main block and Chemistry block	A bridge was constructed.

**5.1.11 What are the institutional provisions for resolving issues pertaining to sexual harassment?**

The Women’s Development Cell takes care of issues pertaining to sexual harassment of students. It creates awareness among the College community on the ethics and also on the legal consequences of such harassment. The Cell has conducted talks on topics like “Women: Society and Safety”, “Domestic Violence Act” “Women Empowerment in Kerala” etc. to conscientize staff and students. Rallies and meetings are conducted to protest against the incidents of serious atrocities and injustice to women, like Delhi gang rape case etc. Moreover, information on the code of conduct is given by the Principal ,in the Initiation Programme held at the beginning of the academic year. Generally, the approach is proactive and preventive and not curative. So far no issue of sexual harassment has been reported. As per the direction of the Supreme Court an Anti-Harassment was constituted in 2001 to look into issues of sexual harassment of women employees.

**5.1.12 Is there an anti-ragging committee? How many instances (if any) have been reported during the last four years and what action has been taken on these?**

As a preventive measure against the menace of ragging in the College, and as per the directions of the U.G.C., the University and the Government, an Anti-ragging and Ethic Committee is constituted, consisting of the following members.

- Rev. Dr. T. M. Jose, Principal : Chairman
- Dr. V.D. John, Staff Advisor : Convener
- Dr. A.J. Thankachan, Discipline : Committee Convener :
- Prof. Babu Antony Menachery : Vice Principal
- Prof. K. A. Davis : Vice Principal
- Mrs. Pallikattil Mary Pathrose : Lady Teacher (Senior most)
- Mr. Shibu A.J. : P.T.A. representative

- All senior students are informed by the Institution about the stringent measures that will be taken against those indulging in ragging in any form.



- As a safety measure, they are not permitted to enter the corridor or class rooms of the first year degree students for one month.
- On the day of commencement of first year classes itself the Principal announces that ragging is strictly prohibited, and that serious punishment will be meted out to those indulging in the same.
- The class teachers also work jointly with the Principal to ensure decent behaviour from the seniors.
- Banners and posters are displayed at key places of the campus, library, hostels, including contact numbers of anti- ragging committee members.
- The first degree classes are always arranged adjacent to the corresponding Departments to create a sense of security among the freshers.
- Department wise Freshers' Days are organized in the presence of the faculty, which gives a chance to the two groups to interact in a healthy atmosphere.
- If any incidents of ragging are came to know immediately the Principal, the concerned class teacher, the Head of the Department will intervene immediately to the issue and take necessary measures. During the last four years the stringent measures insisted by UGC were taken against the culprits in one case.

#### **5.1.13 Enumerate the welfare schemes made available to students by the institution.**

The College undertakes many programmes with a view to promote student welfare in various fields and to provide additional support for their all round development.

- A well- maintained garden and shady evergreen trees spread all over the campus makes the campus pollution free.
- Spacious parking for students' vehicles.
- Two canteens to cater to the needs of the students at subsidized prizes.
- Book binding and Reprographic Centre inside the campus.
- Free medical checkup for all students once in a year.
- Mid-day meal scheme for poor students with the assistance of faculty and students.
- A separate retiring room for girl students.
- Free Counselling Centre and service of professional counsellors to help the students under stress and anxiety.
- Well maintained Health and Fitness Club with state of the art facilities and a number of standard play fields to improve the physical fitness of students and a health insurance scheme for all the students.
- Purified drinking water facility available at different places of the campus.
- In the library, a huge Reference Section is set apart to satisfy the academic curiosity of the students. Full time internet browsing facility, journals, periodicals and dailies to update students' knowledge.
- Various clubs to foster the integral growth of students along with academic progress
- Career Guidance Cell, student counselling, Remedial teaching, tutorial sessions are effective for the progression of students to higher studies.
- Women's Development Cell for the welfare of female students.

#### **Financial Assistance**

- The College Management is very particular that no student shall stop his/her studies on account of financial constraints. Contingency grant is released to genuine students from the Student Aid Fund.
- Relaxation is made in tuition and mess fees for deserving students even in self-financing programmes.



- All eligible fee concessions and stipends are provided to the students, as per the category and eligibility criteria of the State or Central government policy.
- Other than National and State Government Scholarships, the College has instituted various scholarships like cultural scholarship, sports scholarship etc.
- Welfare Schemes like lending of books, financial aid to students for buying study materials, etc. are provided by a few Departments.
- Endowments and Awards are instituted by well wishers.

### **Student Aid Fund**

Student Aid Fund is established to extend financial assistance to the deserving students. Normally, the assistance is given on merit-cum-means basis. The Fund is raised from the Management, students and well-wishers.

### **5.1.14 Does the institution have a registered Alumni Association? If ‘yes’, what are its activities and major contributions for institutional, academic and infrastructure development?**

- The College has a very strong and active Old Students’ Association. It plays a significant role in the development of academic and infrastructural facilities of the Institution. The Dubai Chapter of the Association was started in 1998 and celebrated its Decennium in 2008. The prominent alumni occupy coveted positions in academic, administrative, scientific and managerial realms in India and abroad. Many of our alumni are working abroad as renowned scientists. A good number of alumni occupy esteemed positions as professors, bankers, chartered accountants, corporate personnel, doctors, engineers, advocates, film stars, musicians, renowned politicians, academicians, administrators etc.
- The OSA has instituted a number of endowments, academic and co-curricular activities, like interdepartmental quiz competition, seminar presentations, volley ball tournaments, foot-ball tournaments etc for incoming students.
- Some of the contributions of the Alumni are listed below:
- For the Institutional, academic and infrastructural development of the College, the OSA contributed Rs. 4,50,000/- in the year 2010-2011, worth Rs 5,50,000/- in the year 2011-2012, Rs 6,50,000/- in the year 2012-2013 and Rs. 12,00,000/- in the year 2013-14.
- The OSA has promised to contribute Rs.2 crore for the construction of the College Indoor Stadium.
- The Dubai Chapter of OSA provides around Rs.1.5 lakhs as fee concession for ten BPE students of the College.
- One portion of the Zoology Block, Chemistry Research Lab, and second floor of building which is worth Rs. 12 lakhs are sponsored by the OSA.
- The OSA also contribute Rs. 5,16,166/- towards various endowments for various Departments
- The OSA has deposited Rs. 25,000 for volleyball tournament and Rs. 25,000 for inter Department quiz competition
- The Institution has one general Alumni Association (OSA) and Department-wise Alumni Associations. The OSA has fixed the second Saturday of March as their Alumni day; the BPE Alumni day is on the second Saturday of February, Zoology Alumni day on December 2<sup>nd</sup> Saturday and Commerce Alumni day on October 2<sup>nd</sup> Saturday. These prescheduled meetings ensure maximum participation of the Alumni. The College Website provides a separate domain for the Alumni.



- Well placed alumni are invited to the annual meeting and honoured in order to motivate students towards higher studies and research. Departments invite their renowned alumni for delivering talks on various topics, along with activities of the subject associations, to inspire the upcoming generations.

The following is some of the prominent alumni of the College in occupying coveted positions:

SI. No.	Name	Designation
1	Dr. K. Radhakrishnan	Former Chairman ISRO
2	Dr. P. N. Vinayachandran	Professor, Centre for Atmospheric and Oceanic Science, Indian Institute of Science, Bangalore.
3	Dr. Murali G. Nair	Professor, Michigan State University, USA.
4	Dr. N. D. Inasu	Former Pro Vice Chancellor of CUSAT; Former Principal of St. Aloysius College Thrissur.
5	Dr. A. P. Thomas	Professor & Head (Retired), School of Environmental Science, MG University Kottayam.
6	Dr. V. R. Prakashan	Professor (Retired), Department of Environmental Science, University of Kerala.
7	Dr. A. A. Jayaprakash	Principal Scientist (Retired), CMFRI Kochi.
8	Dr. M. P. Biju	Principal Scientist, GlaxoSmithKline, USA.
9	Dr. T. K. Sasikumar	Principal Scientist, Merk-Schering Plough Research Institute, USA.
10	Anuradha S. Prakash	Scientist, ISRO.
11	Dr. E. A. Jayson	Scientist F, Kerala Forest Research Institute.
12	Dr. K. C. Vijayakumar	Professor & Head, Department of Commerce and Management, University of Calicut.
13	Dr. K. B. Pavithran	Professor & Director (Retired), School of Management, CUSAT.
14	Dr. Sunil K. Narayanankutty	Professor, Department of Polymer Science and Rubber Technology, CUSAT.
15	Dr. K. V. Lazar	Professor & HOD of Zoology (Retired), Member of Syndicate, University of Calicut.
16	Dr. C. A. Jayaprakash	Head of the division of Entomology, Central Tuber Crops Research Institute, Thiruvananthapuram.
17	Dr. B. Narayana	Professor & Chair, Department of Chemistry, University of Mangalore.
18	Dr. E. Nandan	Senior Research Scientist, Institute of Bioengineering and Nanotechnology, Singapore.
19	Dr. K. K. Joshi	Senior Scientist, CMFRI, Kochi.
20	Dr. A. F. Jayaraj	Senior Analytical Chemist, Ball Horticultural Company, USA.
21	Dr. V. Haridas	Associate Professor, Department of Chemistry, IIT Delhi.
22	Dr. K. V. Radhakrishnan	Senior Scientist, NIIST Thiruvananthapuram.
23	Dr. K. G. Raghu	Senior Scientist, NIIST Thiruvananthapuram.
24	Dr. P. R. Maneesh Kumar	Associate Professor & Head, Department of Biotechnology, University of Calicut.
25	Dr. N. V. Rajesh Kumar	Assistant Professor, John Hopkins University, USA.



26	Dr. P. A. Sinu	Assistant Professor, Central University of Kerala.
27	Dr. P. O. Jenson	Principal, St. Thomas College(Autonomous), Thrissur
28	Dr. V. P. Gangadharan	Renowned Oncologist.
29	Mr. N. V. Madhavan, IAS	Secretary (Retired) Kerala State Housing Board.
30	Mr. T. P. Senkumar, IPS	Additional Director General of Police, Kerala.
31	Mr. T. M. Manoharan, IFS	Principal Chief Conservator of Forests, Kerala & Former KSEB Chairman.
32	Mr. Simon John	Joint Director (Retired), Marine Products Export Development Authority, Kochi.
33	Mr. K. B. Shaji	Joint Director, Department of Fisheries, Kerala.
34	Mr. O. K. Sreedharan	Director of Collegiate Education (Retired), Government of Kerala.
35	Mr. P. Rajeev	M. P. of Rajyasabha.
36	Mr. P. R. Jose	Afro-Asian Regional Manager, Exxon Mobile Chemical, Dubai.
37	Mr. I. Raghunandan	Director, DCM, Delhi.
38	Mr. Sachin Menon	Executive Director, Pricewaterhouse Coopers, Mumbai.
39	Mr. Kochouseph Chittilappilly	Founder Chairman of V-Guard Industries, Kerala.
40	Dr. K. Sachidanandan (former faculty member of English)	Malayalam poet & former Secretary, National Sahitya Academy.
41	Mr. P. Jayachandran	Renowned Play back singer.
42	Mr. T. V. Chandran	Renowned Film Director.
43	Mr. Kamal	Renowned Film Director.
44	Mr. Sundardas	Renowned Film Director.
45	Mr. Cyril C. Vallur	Arjuna Award Winner Sportsman.
46	Mr. Subhash George	Olympian.
47	Mr. Sherafali U.	Former Indian Foot Ball Team Vice-Captain.

## 5.2 Student Progression

### 5.2.1 Students Progressing to Higher Education or Employment

As a result of the orientation and motivation given to the students during their course of study at Christ College, most of the UG students desire to pursue higher studies in the subjects concerned. The general observation is that students who complete graduation or post-graduation at Christ College get employed either in government/private sector or pursue higher education. The average percentage of students who pursue higher education after completing UG and PG are:

Student Progression	UG to PG	PG to Ph. D	Employment	
			Campus Recruitment	Other recruitments
Average of Percentage	54.833	5.228	23	37

- Some of the science graduates from our College are found to opt for M.B.A. or M.C.A. programmes.



- After post-graduation, girl students mainly pursue B.Ed. programme and a few enroll for Ph. D. programme and very few enroll for M. Phil.
- A good number of students prefer to join M. B. A. after graduation

### 5.2.2 Programme-wise Course Completion Rate and Pass Percentage of the Last Four Years:

The College has consistently good pass percentage in the University examinations. A substantial number of students secure distinctions and first classes.

2010			
Programme	Subject	Name of Student	Rank
UG	Commerce	Devi P	II
	Functional English	Gigi V.C	II
	Chemistry	Nimmy A.B.	II
	Geology	Neetha Raj	I
		Ragi P Nair	III
PG	Environmental Science	Abdul Jabbar A.C	I
		Linta K.B	II
		Ajitha V	III
	Zoology	Sabitha M B	III
	History	Subha A A	III
2011			
Programme	Subject	Name of Student	Rank
UG	Commerce	Vidya Asokan	I
	Geology	Dhrishya Divakaran	I
		Nimmy P M	II
	Chemistry	Aswathy M N	I
	Functional English	Ms Sruthy K	III
PG	Environmental Science	Swathi C S	I
		Bibitha K B	II
		Reshma Ramachandran	III
	Physics	Sikha Simon	II

With the introduction of Choice Based Credit Semester System, the University has resolved not to award ranks. However, from 2012 onwards it was decided to award top positions in UG and PG programmes. The following table gives the top positions secured by the students of the College in various programmes

Sl. No.	Name	Position
1.	Ms. Swathy C.S Ms. Swathy Krishna	B Com, 2012 First Position
2.	Ms. Praseetha V.P.	M.A. Economics 2 <sup>nd</sup> Topper 2014,
3.	Ms. Gigi Baby	M.Sc. Environmental Science 2013, First Position
4.	Ms. Sreelakshmi E.	M.Sc. Environmental Science 2014, First Position,
5.	Ms. Athira K.R.	B.Sc. Geology 2012, First Position
6.	Ms. Arathi Ravindran	B.Sc. Geology 2013, First Position
7.	Ms. Haritha V.K.	B.Sc. Geology 2014, First Position



8.	Ms. Sruthy P.P.	B.Sc. Geology 2014, Second Position
9.	Ms. Aparna Venugopal	M.A. History, 2014, Second Position
10.	Ms. Silpa K.S.	B.Sc. Mathematics, 2014, First Position
11.	Ms Vinitha N	B.Sc. Physics, 2014, First Position
12.	Ms Silpa Prabha	M. Sc. Zoology, 2014, Third Position

The following table gives the pass percentage in various programmes

UG Programmes						
Sl. No	Under Graduate Programmes	Christ College				Average of other Institution
		2011	2012	2013	2014	
1.	B.Sc. Mathematics	90.0	74.3	84.2	81.6	83.2
2.	B.Sc. Physics	87.0	82.0	81.0	88.0	80.0
3.	B.Sc. Chemistry	89.0	100	92.0	98.0	92.8
4.	B.Sc. Zoology	66.0	76.0	62.0	74.0	80.7
5.	B.Sc. Geology	97.0	85.0	81.0	90.0	NA
8.	B.A. Economics	88.3	76.6	72.3	83.0	80.3
9.	B.A. Functional English	95.0	90.6	88.9	80.9	83.2
10.	B.Com. (Reg.)	91.2	94.8	91.3	85.2	90.2
	B.Com(Self-financing)	82.4	91.0	78.4	80.2	
11.	BPE	69.0	95.0	84.0	75.0	NA
PG Programmes						
Sl No	Under Graduate Programmes	Christ College				Average of other Institution
		2011	2012	2013	2014	
1.	M .Sc. Mathematics	Started in 2012			84.6	95.9
2.	M.Sc. Chemistry	92.0	92.0	100	92.0	90.5
3.	M.Sc. Zoology	100	100	100	100	94.0
4.	M.Sc. Physics	92.0	100	100	83.0	95.0
5.	M.Sc. Enviro. Sci.	100	100	100	95.0	NA
6.	M.A. Economics	90.5	87.5	77.7	100	93.7
7.	M.A. History	100	90.0	82.0	90.0	90.2
8.	M.Com	73.3	100	100	100	97.0

#### Programme-wise Course Completion Rate

Subject	Programme	2010-11	2011-12	2012-13	2013-14
Physics	B Sc	100	88	92	93
	M Sc	83	100	100	100
Mathematics	B Sc	87	90	90	86
	M Sc	Started in 2012			83
Chemistry	B Sc	89	82	100	100
	M Sc	100	100	100	100
Zoology	B Sc	86	94	100	87
	M Sc	92	100	100	93
Economics	B A	97	78	78	82
	M A	80	100	100	90



Commerce	B Com	95	96	93	96
	M Com	70	90	100	93
B. Sc. Mathematics		87	90	90	86
B. Sc. Geology		91	91	83	89
B. A. Fun. Eng.		70	90	85	95
BPE		88	75	94	87
M.A. History		100	80	100	79
M. Sc. Envi. Sci		92	100	100	92

### 5.2.3 The Institution facilitates student progression to higher level of education or employment in the following ways:

- The Career Guidance and Placement Cell in the College functions meticulously, keeping the students informed and updated about opportunities in higher learning as well as employment.
- Campus recruitment programmes are conducted by the Cell to enhance the employment opportunities of the students.
- Career guidance programmes are organized in the form of seminars, workshops etc.
- A few Certificate Courses are successfully conducted in the College: PG Diploma in Disaster Management (2007-12) and PG Diploma in Green and Sustainable Energy Technologies (2012-17).
- Add-on Courses aimed towards an interdisciplinary approach in learning are conducted in various subjects.
- To increase the intake of students in higher educational and employment sectors, training is given for CPT, UGC/CSIR/ NET/ JRF Exams, Tests to State and Central Services, Mock interviews, Group discussions, Quizzes, etc.
- The exposure given through tie-ups with Research Bodies/ Organizations increase the students, chances for higher education and employment.
- The Departments of Chemistry, Zoology and Botany have established tie- ups with Amala Institute of Medical Science, Thrissur.
- Linkage with Government/ Non-Government organizations also leads to employment ( Wipro Technologies, The Federal Bank Ltd, The South Indian Bank Ltd., Goan Institute of Communicative English, KPMG Accountants, Axis Bank, Infosis. ICICI, etc.)
- The contact and rapport shared by the Research Guides of the College with eminent academicians and research bodies in various fields, helps student progression.
- Visits to industries and research institutions are promoted to provide the students with a firsthand knowledge about the modes of operation in different industries. Such visits also serve to bridge the gap between the theory sessions inside the classrooms and the real working world outside.
- The Departments of Zoology, Chemistry, Geology and Environmental Science, Physics and History have been elevated as Research Centres.
- A few PG courses started recently, M.Sc. Mathematics, M.Sc. Botany, M.A. English etc. enable the students to progress to higher studies.
- The College encourages the students to visit advanced institutions for doing PG projects and for data collection. IIT's, NIT's, etc. and to participate and present papers in various Seminars and Conferences.
- The Institution provides effective guidance for students to choose the right internship programme that will eventually lead to a good placement.





- The Alumni of the College who have become well known names in different fields visit the College for motivating and inspiring the students.
- Academic meetings are frequently convened, in which the students are encouraged to interact with the eminent resource persons of their respective disciplines.
- Systematic conduct of internal examinations, regular assessment of student progress and preparation of progress cards motivate the students to strive for better results.
- Regular class tests, writing practices and solving of the previous years' question papers in the class, help the students to score high grade in the final exams.
- Many awards/endowments and scholarships are instituted, motivating the students to excel in their academic subjects.
- The students are provided necessary certificates, testimonials and related documents from the College Office without unnecessary delay, for the purpose of jobs or admission to higher centres of learning.
- Recommendation letters are provided to worthy students by the faculty.
- Open House programmes are arranged to facilitate interaction between teachers and parents regarding the academic performance of every student.

#### **5.2.4 Enumerate the special support provided to students who are at risk of failure and dropout.**

- Students opting for professional courses like, Engineering, Medicine, etc. are not considered as real drop-outs.
- An efficient system works in the College for mainstreaming the dropouts who return later. Girl students who discontinue their education due to marriage are encouraged to continue their studies as per the University rules.
- Psychological support is offered to the students through trained counsellors and by the faculty of the Department of Psychology.
- The College provides quality teaching and excellent infrastructure to increase the competency of the students.
- Students on the verge of discontinuing the course, are given special care, and mentally reoriented by the mentor to continue the course.
- Special care is given for the weak students through Extra Classes and Remedial Teaching in order to prevent failure and dropout.
- Consistent monitoring of the attendance and academic performance of the students is done by the class mentor.
- Interaction of class teachers and tutors with the parents, helps in understanding the specific problems of students and in finding solutions.
- Fee concession is provided to students based on the marks obtained in their qualifying examination.
- Financial support is given by the College to weaker students to meet their mess fees, tuition fees, cost of books, travelling expenses, etc.
- The fee payment date is extended within a semester, to help the financially weak students.

### **5.3 Student Participation and Activities**

#### **5.3.1. List the range of sports, games, cultural and other extracurricular activities available to the students. Provide details of participation and programme calendar.**

The College believes that the overall development of an individual is achieved through involvement in extracurricular activities apart from the regular curricular activities. It is these extracurricular activities make the campus vibrant and colourful. In 2014-15



academic year, the College has started a new venture in which inter class competitions are held in sports and arts and the class which emerges the winner is declared “Champions of Christ”. The range of extracurricular activities starts from the class level and extends to State and National levels. The extracurricular activities available to students in the College and the details of the participation are given in the following sections.

### A. Range of Sports and Games

Right from its inception in 1956, the College has been in the fore front in Sports/ Games activities. The history of the College indicates that it has a consistent track record of successes in different items in the sports and games arena, both at the University and State level. The College maintains the following teams, in which any skillful student can be a member. Archery (Men & Women), Athletics (Men & Women), Badminton (Men & Women), Baseball (Men), Basketball (Men), Best Physique (Body building), Boxing (Men), Chess, Cricket (Men), Cross country (Men & Women), Cycling (Men), Football (Men & Women), Gymnastics (Men & Women), Handball (Men & Women), Hockey (Men & Women), Judo (Men & Women), Kabaddi (Men), Kalaripayattu (Men), Kho-kho (Men), Shooting (Men), Softball (Women), Swimming (Men), Table Tennis (Men & Women), Tennis (Men & Women), Volleyball (Men & Women), Weightlifting (Men), Wrestling (Men & Women) and Yoga.

The College has excellent infrastructural facilities to support these teams and also provides the best trainers available. The involvement of students in these activities and the excellent facilities provided by the College, resulted in outstanding achievements. Many of the students have been in the State and University teams, and the following is a short list of their prizes won in National/State/Interuniversity level competitions.

<b>2010-11</b>			
<b>Name</b>	<b>Item</b>	<b>Championship</b>	<b>Title</b>
Suhair V P	Football	Santhosh Trophy	Bronze
Safeer T	Triple jump	All India Inter University Meet	Silver
Sreejithmon K M	Triple jump	All India Inter University Meet	Bronze
Rajesh Sekhar E	Volleyball	All India Inter University Meet	Silver
Shijomon K M	Softball	South Zone Kerala Team	Silver
Rahul Subash	Athletics	South Zone National Athletic Meet	Silver
Abhayadev C S	Octothalan	National Junior Athletic Meet	Silver
<b>2011-12</b>			
Umais A K	Relay (4x100)	All India Inter University Meet	Bronze
AshikHari	Volleyball	All India Inter University Meet	Silver
<b>2012-13</b>			
Suhair V P	Football	All India Inter University Meet	Gold
AshikHari	Volleyball	All India Inter University Meet	Silver
AshikHari	Volleyball	National Youth Meet	Silver
<b>2013-14</b>			
Rakesh T R	Football	All India Inter University Meet	Gold
Rajesh Sekhar E	Volleyball	All India Inter University Meet	Silver
Amritha K J	Cricket	All India Inter University Meet	Bronze
<b>2014-15</b>			



Arun K V	Archery	National Games	Bronze
Shihabudheen K K	Football	All India Inter University Meet	Gold

The College teams have achieved stunning results in these years and the following table gives some of the outstanding victories.

Year	Team	Championship	Title
2010-11	Football (Women)	Inter zone - University of Calicut	Third
2011-12			Third
2012-13			Runners up
2013-14			Runners up
2009-10	Football (Men)	Inter zone - University of Calicut	Third
2011-12			Runners up
2013-14			Runners up
2009-10	Hockey (Men)	Inter zone - University of Calicut	Runners up
2010-11			Runners up
2011-12			Runners up
2012-13			Champions
2013-14			Champions
2014-15			Runners up
2009-10			Hockey (Women)
2010-11	Champions		
2011-12	Champions		
2012-13	Champions		
2013-14	Runners up		
2014-15	Runners up		
2012-13	Athletics (Men)	Inter zone - University of Calicut	Runners up
2013-14			Third
2014-15			Champions
2014-15	Archery (Men)	Inter zone - University of Calicut	Champions
2009-10	Gymnastics (Men)	Inter zone - University of Calicut	Champions
2010-11			
2011-12			
2012-13			
2013-14			
2014-15			
2009-10	Gymnastics (Women)	Inter zone - University of Calicut	Champions
2010-11			
2011-12			
2012-13			
2013-14			
2014-15			
2012-13	Cross country (Men)	Inter zone - University of Calicut	Champions
2013-14			Runners up
2014-15			Champions
2013-14	Cross country (Women)	Inter zone -	Third



2014-15		University of Calicut	Third
2012-13	Table Tennis (Men)	Inter zone -	Third
2014-15		University of Calicut	Third
2009-10			Third
2011-12	Basketball (Men)	Inter zone -	Third
2012-13		University of Calicut	Runners up
2014-15			Third
2009-10		Inter zone -	Third
2013-14	Tennis (Women)	University of Calicut	Third
2014-15			Champions
2013-14	Body building (Men)	Inter zone -	Runners up
2009-10		University of Calicut	Runners up
2013-14	Volleyball (Men)	Inter zone -	Champions
2012-13	Volleyball (Women)	University of Calicut	Third
2009-10		Inter zone -	Runners up
2010-11	Cycling (Men)	University of Calicut	Runners up
2009-10	Boxing (Men)	Inter zone -	Runners up
2009-10		University of Calicut	Third
2010-11	Softball (Women)	Inter zone -	Third
2009-10	Baseball (Men)	University of Calicut	Third
2009-10	Weightlifting (Men)	Inter zone -	Third
2009-10		University of Calicut	Third
2010-11	Handball (Men)	Inter zone -	Third
2010-11		University of Calicut	Third
2011-12	Judo (Men)	Inter zone -	Third
2011-12		University of Calicut	Third
2011-12	Cricket (Men)	Inter zone -	Runners up
2011-12		University of Calicut	Runners up

The following table gives the number individuals participation and team participation in Interuniversity, South Zone and National Competitions.

Year	Number of individual participation in		Number of team participation in	
	State Teams	University Teams	State Teams	University Teams
2010-11	-	1	5	15
2011-12	4	4	7	23
2012-13	5	9	6	25
2013-14	3	5	7	25
2014-15	4	12	13	24

### B. Range of Arts and Cultural activities

Involvement of students in arts and cultural activities improves their relationship with peers and society, and preserves the heritage and traditions of the society. The College provides its students a multitude of opportunities to enhance their talents in arts.



**Fine Arts Club:** The Fine Arts Club coordinates numerous arts and cultural activities in the College. Students participate in class-wise intra- collegiate events. This enhances their team spirit and leadership qualities. The students are also encouraged to participate in Inter collegiate events. The College has been the winner of the D-Zone University Arts Festival a number of times and Inter-zone winner occasionally.

**Film Club:** The Film Club spearheads the cinema production and screening activities of the College. Students from each Department are encouraged to make their own short films. The short films produced by the Club include Role Model (2010), Dark Game (2011), College Canteen (2012), Nammudeyokke Life (2013). The ‘College Canteen’ is a set of five films – ‘Love’, “Ego”,” Friendship”, “Hate”, and “One Rupee Coin”. This year the Film Club conducted a film show ‘Crossroads’ which was a grand success.

**Prathiba:** The Competition conducted by NSS finds out the best talents in light music and extempore speech. The competitions are conducted every year and attract State wide participants.

Name	Year	Event
Lakshmi S	2014	All India First in Dance Competition
		South Zone Intervarsity Best Classical Dance Prize
		Best Dancer- D Zone, Calicut University
	2013	Kalathilakam- D Zone, Calicut University
Akshay Sebastian	2014	Kalaprathibha - D Zone, Calicut University
Anjali Suresh	2014	Best Actress - D Zone, Calicut University
Gopika Vijayan	2014	Best singer – Prathiba- State level
Anju Menon	2013	Best Actress Hindi – Inter-zone Calicut University
		Best Actress Hindi - D Zone, Calicut University
Pooja Anilkumar	2013	Best Actress English - D Zone, Calicut University
Adorn Paul	2013	Best Actor Hindi –Inter-zone Calicut University
	2012	Best Actor English - D Zone, Calicut University
Vyshak Shaji	2012	Clay modelling-First –Interzone, Calicut University
Remya R Menon	2011	Kathaprasangam- First – Interzone, Calicut University
Aneesh K A	2011	Hindi versification –First-Interzone, Calicut University

The following tables gives the number of prizes in individual and group level competitions held in the zonal and University level competitions.

Number of Prizes won in Individual Items						
Year	Prizes won D Zone Competitions			Inter-zone competitions		
	First	Second	Third	First	Second	Third
2010	5	4	6	1	2	1
2011	4	5	4	2	1	3
2012	7	6	3	2	3	3
2013	6	6	6	2	3	2
2014	3	4	13	Not Scheduled		
Number of Prizes won in Group Items						
	Prizes won D Zone Competitions			Inter-zone competitions		



Year	First	Second	Third	First	Second	Third
2010	2	2	2	2	1	1
2011	3	3	1	2	1	2
2012	2	3	3	2	3	1
2013	3	1	2	1	3	3
2014	4	5	3	Not Scheduled		

### C. Range of other Extra Curricular Activities

College offers a wide range of extracurricular activities to the students. The Debate club, Quiz club, NCC, NSS, CSA etc offer them opportunities to inculcate social values and soft skills.

**Debate Club:** It conducts debate competitions on relevant issues. The competitions are held class wise initially, and students are selected to the final round. Winners are awarded with certificates and cash prizes.

**Quiz Club:** Christ College has bagged numerous prizes in Intercollegiate quiz competitions organized by other colleges. The Quiz Club also conducts classwise quiz competitions in the College. The participation of students in activities of Quiz Club not only enhances their knowledge but also their presentation skills.

**CSA:** It provides an ideal platform for enhancement of interpersonal skills and personality development of the students. Every year CSA conducts the Chavara Memorial Speech Competition which is a statewide event and quite often students of Christ College are the winners.

**NCC:** The NCC of the College offers training in basic life skills, orientation to military services and a disciplined life style to its members. Every year NCC cadets of the College conduct blood donation camps and numerous students wholeheartedly donate blood as part of social service.

**NSS:** The NSS units of Christ College aim at personality development of the students through social service. Activities of the NSS include creating environmental consciousness, helping the underprivileged and creating social responsibility.

Besides, the College also creates opportunities to promote the inborn talents of the students through Drawing and Painting Club, Music Club, Drama Club and Dance Club.

### D Programme Calendar

The yearly calendar comprising the sports, cultural and extracurricular activities of the College is given below.

Month	Event	Conducted by	Participation
Dec-Jan	College Intramural (sports)	Students' Union	All students
Dec-Jan	College Arts Festival	Students' Union	All students
Aug-Jan	Champions of Christ	Students' Union	All students-Class wise
Jan	Kandamkulathi Football Tournament	Department of Physical Education	Intercollegiate-College Football team
Jan-Feb	OSA Volleyball Tournament	Department of Physical Education	Intercollegiate-College Volleyball Teams
Jan	Prathiba	NSS	Intercollegiate-Two NSS volunteers
Dec	Speech Competition	CSA	Intercollegiate
Nov-Dec	Film Club Screening	Film club	All Classes
July-Nov	Blood Donation	NCC	All students
Oct-Dec	Quiz Club Competitions	Quiz club	All students
Oct-Dec	Debate Club Competitions	Debate club	All students



**5.3.2. Furnish the details of major student achievements in co-curricular, extracurricular and cultural activities at different levels: University / State / Zonal / National / International, etc for the previous four years**

Excellent opportunities provided to students resulted in outstanding achievements. The following table enlists a few of the students' achievements

Name	Event	Year
Shyam Sundar (NCC cadet)	Republic Day Parade, New Delhi	2015
Hari K and Krishnaprasad R Nair (NSS volunteers)	Best Poster Award in National Seminar at Rajiv Gandhi National Institute for Youth Development, Chennai	2015
Arya P Raj and Thanzeen P S	Third place in the Quiz Competition organized in connection with the Wildlife Week Celebrations, Forest Department	2014
Kevin Raphael	Third prize in the essay competition organized by the Indian Social Institute	2013
Thancy Shamsudheen	Second prize in All Kerala Debate Competition organized by the Lawrence School of Management	2013
Aathira Warriar, Swathi, Aswathi, Amala Jose, Aruna S, Christeena Rappai	All India Dance Choreography Completion organized by the Management Department MES College, Aluva	2012
Athira Warriar	Participant: <i>Mampazham</i> Reality Show of Kairali TV	2012
Justin Thomas	Third prize in Young Economist Competition at Christ University, Bangalore	2012
Justin Thomas	First prize – State Level Paper Presentation Contest 'India as an Economic Super Power' at SH College, Chalakkudy	2011
Biston K.S	Second Prize in the Essay Competition conducted by TKM Arts and Science College Kollam	2011
Nevin Jose Antony And Sruthy K	Second Prize in Inter Collegiate Debate Competition. Nevin Jose Antony - The Best Debater	2011
Renjith Paul, Chindu M and Raheela P A	National Integration Camp held at Godhara in Gujarat	2010
Jerin Antony	Attended the Advanced Leadership Camp held at Karamseth, Gujarat	2010
Pranav T. P	Represented the Kerala and Lakshadweep Contingent at the Republic Day Camp at New Delhi	2010
Ajay U Menon Subhash T J Rels K Ropson, Joffin P.J Sivraj Chandran, Freddy	National level acclamation NSS volunteers in the National Integration Camp held at Gwalior	2010
Mr. Gokul P.	2 <sup>nd</sup> Prize in Web Designing (Workshop CHIP-to-NET, Vidya Academy of Science & Technology)	2013

**5.3.3 How does the College seek and use data and feedback from its graduates and employers, to improve the performance and quality of the institutional provisions?**

The success of an educational institution can be assessed by the achievements of its students and the satisfaction of their employers. For an evaluation on these matters the



College receives suggestions from the graduates regarding the improvements in performance and institutional provisions. Every year, the responses of the passing out students are collected at the Department level using a well structured questionnaire. These feedbacks from the students are discussed with the Heads of the Departments concerned. The oral feedback expressed by them during the send off meetings are also considered. The Principal collects feedback from the outgoing students every year and assesses it. Suggestions and remarks from students are discussed with the Heads of the Departments concerned. The responses received from students are treated as a quality indicator for regular academic and non academic improvement. The performance and institutional provisions are regularly updated. The feedback from employers is also collected. The campus recruitment drives conducted by the same companies from IT sector and Banking Industry in the College every year, is a direct indication of the employers' confidence in the students of the College. The College initiated classes for improving the communication skills of the students on account of the feedback from employers. The alumni offer feedback about the effectiveness of the programmes undergone and training obtained. This is significant as their feedback is obtained after their employment, which indicates the level of their satisfaction.

#### **5.3.4 How does the college involve and encourage students to publish materials like catalogues, wall magazine, and other material?**

The College encourages its students to express their views and demonstrate their creativity through publications in the College and Department level newsletters, e-newsletters and magazines. The Students' Union publishes the College Magazine every year, in which creative articles by students and staff are published. A Magazine Committee is constituted for this purpose with a Student Editor as the coordinator. A member of the faculty is appointed by College Principal as the Staff Editor who advises the Magazine Committee in its endeavors.

The Magazine includes the College Report of all activities and achievements of the year, prepared by the Principal. The reports of all Departmental Associations, curricular and extracurricular Clubs and IQAC are also included in the College Magazine. All Departments and class rooms have notice boards in which students publish their creative works. The following are some outstanding programmes of certain Departments.

- An innovative programme by Department of Malayalam to launch a Page in Malayalam Wikipedia Website for the College is in progress. The data collection is over and the compilation is under process.
- The Film Club of the College produces and screens short films by students occasionally.
- The Department of Commerce publishes a yearly journal "Commerce Herald" which details the important events and achievements of the Department.
- Department of Zoology publishes a Manuscript Magazine "Wesay" to enhance creativity of students in literary and drawing talents.
- The Department of Chemistry publishes a Wall Magazine every month entitled "Chem Flash" in which students publish recent articles in Chemistry and the Best Poster Award is given.
- The CSA publishes a handwritten Magazine every year which is archived in the College library.
- The NSS publishes a wall Magazine every month with different social themes in the NSS notice board.
- PG students are encouraged to present project reports in National and International Seminars.





- Literary competitions are conducted and winners are felicitated.

### **5.3.5 Does the College have a Student Council or any similar body? Give details on its selection, constitution, activities and funding.**

Yes. The College has a Students' Union which represents the students. The Union consists of nine members- Chairperson, Vice Chairperson, General Secretary, Joint Secretary, Fine Arts Secretary, Student Editor, Two University Union Councillors, and General Captain for sports. The Parliamentary system is followed in electing the Students' Union which is reconstituted every year. The dates of nomination and election are scheduled by the University. Normally a one week interval exists between filing of nomination and the election. One of the faculty is appointed as Returning Officer for conducting the election process. The IQAC plays a major role in the documentation, tabulation and the conduct of the election process.

The Students' Union actively involves in the smooth functioning of the College. The Staff Advisor to Students' Union gives proper guidelines in organizing its activities. The Students' Union represents students' matters in the College Council meetings through the Staff Advisor. The intramural competitions, the participation in D-Zone, Inter-zone cultural competitions are effectively done under the leadership of Student's Union.

- The Students' Union gives due importance to the welfare of the students of the College
- Various programmes like College Day, Sports Day, Association Day programmes, Onam celebration and Christmas celebration are organized by the Union
- The Union members are associated with various activities of the NSS, NCC and other co-curricular and extracurricular Clubs
- A fine arts festival is also arranged by the Union to identify talented students, who can participate in zonal and inter-zonal championships
- The Students' Union takes the initiative in publishing the College Magazine and organizing seminars, awareness classes and various competitions.

Funding:- Fees are collected from students according to the University norms for the funding. The donations from the College Management, the faculty and generous public donors contribute towards the funding of Students' Union.

### **5.3.6 Give details of various academic and administrative bodies that have student representatives on them.**

In the College, students are involved in the academic and administrative bodies. Their involvement in the daily matters of the College helps develop a responsible attitude in them. The Students' Union has a definite role in the administrative activities of the College. The Governing Body of the College and the IQAC are the major functionaries of the College administration. Students are members of these two bodies and actively involve in the decision making process. Besides, students actively involve in the administration of different Clubs. The faculty coordinators of the clubs are facilitators who guide the students in carrying out their duties. Students actively involve in the activities of the Magazine Committee, Departmental Associations, CSA, OSA, NSS, NCC, various Clubs.

### **5.3.7 How does the institution network and collaborate with the Alumni and former faculty of Institution.**

The Institution maintains warm and cordial relationship with its alumni and former members of faculty. The IQAC of the College has a representative from OSA. The OSA meeting is convened every year on the second Saturday of March. In addition to these Department level alumni meetings also are organized. All retired staff are invited for the



alumnae reunion so that the former students can interact with their teachers. The achievers among the old students of the College are honoured in the meetings. The number of alumnae participating in the event is overwhelming which indicates the cordial relationship the College maintains with its former students.

- The OSA is sponsors the Christ College Volley ball Tournament every year
- The Dubai Chapter of the Alumni Association sponsors the prizes for Interclass quiz competition and sponsors many students who are economically weak.
- The OSA contributes generously towards all developmental programmes of the College. The teachers of Christ College have a tradition of instituting endowments for the best students. The College Handbook cites the endowments instituted by the former faculty for students and for the conduct of seminars. A get together of all retired teachers is conducted on the second Saturday of October. Besides, they are also invited to the Institution on all important occasions, especially the Staff Retirement day, every year.



ASAP



D zone Parichamuttu



D zone Winners Receiving Trophy from Hon. Chief Minister of Kerala



D zone Mime



D zone English drama



Preparations for D zone





Interuniversity Athletic Meet



Proposed Indoor Stadium



Volleyball Winners



Reception to the Champions of Inter University Athletic Meet



Anti Drug Drive



OSA Sports





## CRITERION VI GOVERNANCE, LEADERSHIP AND MANAGEMENT

The Mission of the Institution clearly indicates its strong commitment to address the needs of the youth from rural areas. The programmes offered by the College are chosen accordingly. The Principal has an active role in the improvement of the quality of the College's educational services. The College maintains quality in teaching, keeping pace with the current requirements. The Management has always encouraged a culture of participative leadership and this is evident from the constitution of Governing Body, Principal, College Council, Head of the Departments, faculty, staff, Students' Union, PTA and OSA.

### 6.1 Institutional Vision and Leadership

**6.1.1 State the vision and mission of the Institution and enumerate on how the mission statement defines the institution's distinctive characteristics in terms of addressing the needs of society, the students it seeks to serve, institution's traditions and value orientations, vision for the future, etc.**

➤ **Vision**

An enlightened generation with its potential developed through quality higher education and moral value inculcation.

**Mission**

To impart quality education imbued with Indian ethos and enriched with universal values. To help our youth to be intellectually competent, psychologically integrated and morally upright social beings.

To train the youth as responsible citizens who will champion the cause of justice, love, truth and peace.

To emancipate the youth from the clutches of 'adharmā' and 'ahamkāra' to true freedom and fraternity

**The distinctive characteristics of the Institution**

- **Value Based Quality Education**

The goal of the College is to mould an enlightened generation by providing quality higher education and moral value inculcation. The College aims to develop mentally, socially, spiritually and physically capable citizens. It envisages the students as leaders, always in the forefront, to champion the cause of justice, love, truth and peace.

- **Social Commitment**

The Institution provides platforms to generate social commitment. The extension activities of NSS, NCC, Imago and CSA create a sense of accountability and leadership excellence among students. A sense of commitment to the society is infused into them through various extracurricular activities and social service schemes.

- **Concern for Eco-friendly Environment**

The lush green campus of the College is a unique characteristic that probably no other college in Kerala can boast of. The activities initiated by the *Bhoomithrasena*, Biodiversity Club and those of the NSS continue this tradition of the College by transferring this spirit of eco-friendly environment to the students.

- **Opportunities for the upliftment of the underprivileged and marginalized**

Even though the College is situated in a semi urban area, most of the students come from the surrounding rural and coastal areas and have minimal exposure to new trends in various fields. Since their integral growth is the ultimate aim of the College, new strategies such as arranging bridge courses to develop their ICT based knowledge, extra classes to enhance their communicative skills etc. are adopted.

- **Excellent Faculty Profile**

The key to the successful fulfillment of the Mission statement is a community of teachers who are committed to their vocation, professionally competent, spiritually mature, humane in dealings and ever open to new horizons of knowledge. The College



Management gives priority to qualification and merit of the applicants, and not to their caste and creed, in the recruitment process.

### **6.1.2 What is the role of top management, Principal and Faculty in design and implementation of its quality policy and plans?**

**Top Management:** The College was founded by the CMI Educational Agency, an indigenous religious congregation, started in 1831 with a Vision of integral development of human beings, irrespective of caste and creed. The tradition of the CMI congregation is to enhance the society through higher education. The College was started about six decades ago, when the opportunity for higher education was remote and remained an unfulfilled dream for most of the youth in Irinjalakuda and neighbouring localities. The Manager of the College is appointed by the Provincial of the Devamatha Province of CMI Congregation, Thrissur. The Governing Body of the College consists of the Manager, the Principal, the Provincial Secretary for Education, the Bursar, three representatives from Local Community and representatives of the faculty and the non teaching staff and the students.

**Quality Policy of the Institution:** The policy of the Governing Body is to offer quality education through a continuous and comprehensive evaluative system and to provide all the infrastructural facilities required for this. It is keen on ensuring proper implementation of the agenda regarding the quality policy and plans, set up by the Management. The Governing Body meets twice a year, and as and when required, to plan and review the developmental strategies of the Institution. It formulates the plans for the year regarding the quality enhancement and sustenance. A review of the previous year is conducted, pointing out the achievements and failures and detailing the challenges and opportunities. The Governing Body gives necessary directions, corrections and clarifications. The Management, the Principal and faculty work together towards designing and implementing quality policy and plans.

**The Principal** plays the role of the Management's representative and is the executive authority of the Institution. The Vision and Mission of the Management is transmitted efficiently to the faculty by the Principal. The founder Principal, the great visionary, Rev. Dr. Gabriel was awarded the "*Padma Bhushan*" by the Government of India in 2007, for his contribution to the cause of higher education in the State of Kerala. His successors also were highly talented men of vision, who contributed to the holistic development of the Institution. The Principal ensures that the policies of the Management are implemented in the right manner. The role of the Principal in designing and implementing the quality policy and plans is accomplished in the following ways.

- Through periodical staff meetings and College Council meetings.
- The Management and the Principal give due importance to the suggestions of the faculty and make necessary changes in the action plan, for the greater welfare of the College.
- A discussion is held with the student community, represented by the Students' Parliament, regarding the new programmes and facilities.
- Taking into consideration the suggestions and needs of the student community, appropriate modifications are made in the quality policy and plans, but without sacrificing the basic tenets of the Vision and Mission of the College.

**Faculty:** A group of committed and dedicated staff is the pillar of strength and support of the College. They are closely involved in the design and implementation of quality policy and plans. The College has twenty Departments and more than fifty administrative and academic bodies, that work together for the successful implementation of quality policy. The faculty are assigned duties pertaining to various administrative, academic and non academic activities, extension works etc., according to their expertise and efficiency. All decisions and policy changes are implemented in consultation with the College Council.

- The College Council is a statutory body, comprising a group of staff representatives. It shares the administrative responsibilities with the Governing Body.





- The Council meets periodically or, as and when required, to plan, implement, monitor, review and resolve issues.
- The Heads of the Departments, who are members of the College Council, consult their respective Departments to collect responses from Departments to the College Council. This ensures transparency and coordination in the organisational and administrative process.
- The IQAC plays a major role in ensuring the sustenance of quality through Departmental visits and ascertaining of documentation. It also proposes new ventures that can enhance quality to the College Council.
- Important issues are discussed in the meetings of College Council, faculty, nonteaching staff and this guarantees the involvement of faculty and support of staff in all major decisions taken.

In brief, though there is a pyramidal system prevailing in the Management there is collective leadership, accommodating the needs and suggestions from all quarters, in implementing the programmes and plans for the quality enhancement of the College.

### **6.1.3 What is the involvement of the leadership in ensuring**

#### **➤ The policy statements and action plans for fulfilment of the stated mission**

The leadership of the College has specific ideas and strategies regarding the Mission and Vision of the College. It is ever vigilant to execute plans efficiently.

- The policy statements and action plans formulated for the fulfilment of the stated Mission of the Institution are translated into reality through the active involvement of the top leadership.
  - There is active involvement from their part at the execution level too. In fact, the Mission is carried out to achieve the goals set up by the founders of the Institution.
  - The Vision of the leadership is expanded into policy statements and action plan with due inputs from its stakeholders.
  - The leadership collects information about the different aspects of the functioning of the College from various quarters.
  - There are periodical meetings of the Governing Body to chalk out the strategy for the period, in which necessary guidelines with regard to the functioning of the College are given.
  - The Principal has periodical meetings with the Manager regarding the state of affairs and seeks his advice for the effective and efficient functioning of the College.
  - There are periodical College Council meetings and staff meetings, which also evaluate the performance in the light of the Vision and Mission of the Institution.
  - In order to make the students aware of the Institutional Vision and Mission, the Principal, in his introductory address to the students, details the Vision and Mission of the Institution. He specifies the rights and duties of the students, which helps them to achieve their cherished goals along with the values set up by the Institution.
  - The Management arranges common staff meetings, career orientation programmes for the members of the staff and extension lectures for students.
  - The various committees formed, right from the Management level to the IQAC level, are committed to see that the policy statement and action plans are commensurate with the Vision and Mission of the Institution.
- #### **➤ Formulation of action plans for all operations and incorporation of the same into the institutional strategic plan**
- At the beginning of every academic year the IQAC prepares an academic calendar which includes working days, holidays, schedule of internal examinations and publication of internal evaluation results, and commencement dates of succeeding semesters.



- The Principal convenes meetings with the coordinators of various curricular and extracurricular bodies, to chalk out the programmes to be conducted and special days to be celebrated in that year.
- A general Timetable for the entire College is drafted by the Timetable Committee every year.
- The Departments also prepare their individual Timetables in tune with the general Timetable. They also chalk out a yearly action plan of various academic meetings to be organized under the leadership of the faculty in charge.
- The plan of action for a year consists of these curricular and extracurricular programmes formulated, and its implementation is reviewed periodically at subsequent meetings.

At the end of every academic year, the Principal convenes meetings with the faculty, the IQAC and the College Council to review the various curricular and extracurricular activities organized during that year. The suggestions and comments received are considered seriously while preparing the plan of action for the following year.

#### ➤ **Interaction with stakeholders**

The College authorities ensure that there is frequent interaction with the stakeholders of the Institution. The Principal plays a key role in collecting the responses of the stakeholders to understand and implement the requirements of the Institution.

**Parents:** There is a strong PTA which discusses all relevant matters pertaining to academics and discipline.

- A general body of the PTA is held every year, to chalk out the strategy for the year.
- The suggestions expressed in the PTA meeting are seriously considered and implemented at the appropriate occasion.
- Besides discussing general matters, the parents are also invited to have an evaluative interaction with the faculty, regarding the academic progress of their ward.
- Suggestions for improvement of the College, in terms of instructional facilities, are also sought from the parents.

**Students:** There is a Students' Parliament which consists of the elected representatives from each class.

- This Parliament elects the Students' Union for the year, which spearheads the cultural and co-curricular activities of the students.
- There are periodical gatherings of the Students' Parliament, which discuss general matters regarding student welfare and academic progress.
- These gatherings are occasions for the Principal and other faculty in key positions, to have an exchange of ideas with the students.
- Due importance is given to the suggestions put forward by the Students' Union and the Students' Parliament. In addition to these interactive sessions students' feedback is collected through class teachers.

**Alumni:** The College welcomes suggestions and healthy criticisms for improvement from its alumni and the public. There is an annual General Body of the College alumni, OSA, which is an occasion for introspection, self-criticism and appreciation. There are also gatherings of the alumni of individual Departments, which also discuss matters of interest regarding the functioning of the College.

**Public:** The College is in frequent interaction with the public also. It has its own benefactors, who have supported in the growth of the College from its inception in 1956. In fact, the Governing Body consists of three representatives from the local community. In the deliberations of the Governing Body, these members air their views and suggestions for high-quality teaching and learning.

#### ➤ **Proper support for policy and planning through need analysis, research inputs and consultations with the stakeholders**



The Management is always vigilant to remain in the forefront to impart quality education and thereby, maintain its relevance in the society. Therefore, before formulating a policy or planning an event, it adopts several methods of assessment. The general mood of the public regarding the starting of the new programmes is assessed through the interaction with the public, alumni, parents and teachers. Though there are no specific research inputs, through an informal evaluative methodology and consultations with the public and stakeholders' opinion are sought before starting every new venture.

- For example, when new programmes are started, suggestions are invited from the general public and alumni regarding their feasibility.
- The mega project of constructing an indoor stadium of international standards was first contemplated in the alumni gathering, and later taken up by them wholeheartedly as their own dream project.

➤ **Reinforcing the culture of excellence**

The Management is committed to raise the College to the status of a premier Institution in academic and nonacademic matters. It utilizes all its resources to cultivate an environment which is conducive for academic excellence.

- The Management takes meticulous care in equipping laboratories and in providing extra facilities in order to provide excellent service to the students.
- In the sports field too, the College has taken care to construct special infrastructural facilities like Pole Vault Jumping Pit, 10m Shooting Range, Health Club, Fitness Centres, etc. besides arranging several sports fields, so that the students get maximum opportunity to be groomed to their fullness.
- The Management always takes special care to see that the assistance from various funding agencies like UGC, SAI, etc. are effectively tapped and intelligently utilized for the welfare of the students.
- Special Cells are set up to prepare the students for various competitive exams and campus recruitment programmes.
- The College aims to transform its students as future-oriented citizens who would excel in all fields they venture into and is ready to provide all the facilities at its disposal for the attainment of this goal.

➤ **Championing organizational change**

The College is aware of the rapid changes taking place in the society and the nation from time to time. Accordingly, the College too brings in necessary changes and modifications in its thrust and functions. The students should be brought up in such a way that they are fit to cope with the needs of the modern society. They should be equipped with modern techniques, state-of-the art facilities and advanced gadgets. With this view in mind, the College has introduced several advanced services so that its students may grow to their fullness in knowledge, wisdom and technique. Also, it has ushered in a new work culture, which is suited to the needs of the global society. The students are given sufficient input both in theory and practice, to ensure that they do not wither under the scorching heat of modern demands. The facilities like ICT enabled class rooms, unlimited internet facility, starting of new Research Centres, introducing new professional as well as Add-on courses etc. exemplify the functional change in the organization. Moreover, realizing the need of environmental protection for the sustenance of humanity, the College has initiated several steps like water harvesting programme, solar energy tapping, planting saplings, environmental protection etc. with the active involvement of the students, which promote environmental education.

#### **6.1.4 What are the procedures adopted by the institution to monitor and evaluate policies and plans of the institution for effective implementation and improvement from time to time?**

- The members of the Governing Body meet regularly to monitor and evaluate the policies and plans of the Institution for effective implementation and improvement.



- The various Departments in the College have regular Departmental meetings where the faculty monitor the policies and plans of the Institution and Department.
- The College Council and the IQAC conduct periodical meetings to review the academic work as per the academic plan and also to discuss the future plans and policies that have to be implemented within a proper time schedule. The Principal also supervises the academic plans and discusses it with various Departments.
- The College authorities organize regular meetings with the representatives of the students. Each class is represented in the Students' Parliament.
- The Principal conducts regular meetings with the non-teaching staff to assess the policies and plans of the Institution.
- PTA meetings, which are convened regularly, offer another forum where policies and plans of the Institution are evaluated.
- The Institution regularly collects feedback from the stakeholders on the performance of the various Departments and the Institution. After analyzing the feedback, future policies and plans are modified.

#### **6.1.5 Give the details of the academic leadership provided to the faculty by the top management?**

- Each Department is an autonomous unit. Academic plans are organized by the Department in tune with the Management's Vision and Mission. The Heads supervise all the activities of the Department concerned.
- Two Vice Principals are appointed for academic leadership and some responsibilities like students' attendance, duty leave etc. are assigned to them.
- The University exams are conducted by the Chief Superintendent, who is appointed by the Principal from the faculty.
- Orientation programme for the faculty is conducted every year. The College Manager addresses the faculty and staff at the end of every term.
- The Management promotes the participation of faculty in seminars, workshops, conferences, and lectures organized by various colleges in and outside the State.

#### **6.1.6 How does the college groom leadership at various levels?**

##### **At the students' level:**

- The Students' Union is elected by the students from the elected representatives. It nurtures the leadership quality of the students.
- Association activities offer a platform for the students to be groomed into good leaders.
- The active involvement of students in various Clubs, improve their leadership quality and organizational capacity.
- Participation in NCC, NSS, CSA and Imago also help the students to develop leadership quality.
- Students who become group leaders in these activities get experience in planning and execution of various activities.

##### **At the teachers' level:**

Teachers are appointed as members of various committees in the College. These include Students' Union Election Committee, Admission Committee, Discipline Committee, Fine Arts Committee, etc. The Principal appoints a Staff Advisor, NSS Programme Officers, NCC Officers, etc. Apart from these, the College has nearly fifty curricular and extracurricular bodies in which one of the faculty is entrusted to take the leadership in organizing various programmes. The participation of teachers is ensured in different activities and they are involved at different stages of decision making and the implementation of these activities.



### **6.1.7 How does the college delegate authority and provide operational autonomy to the departments/ units of the institution and work towards decentralized governance system?**

- The Principal, the Head of the Institution, is assisted by two Vice Principals, to whom partial authority and responsibility are delegated. Besides this, the College Council takes appropriate decisions regarding the general functioning of the Departments.
- All the Departments function under Heads of the Departments to whom authority is delegated, regarding academic matters.
- The individual academic arrangements like workload distribution and Timetable setting are made by the respective Departments.
- The academic progress of the students is primarily monitored by the Head and members of that Department.
- For the state of convenience the Head of the Department assigns the duty of class teacher to a faculty of his/her Department, who will be the mentor of that batch.
- There is operational autonomy for the Departments, except in matters of financial commitment.
- In the periodical meetings of the Heads of the Departments with the Principal and Vice Principals, matters of special concern, financial requirements etc., are discussed and guidelines are chalked out.

### **6.1.8 Does the college promote a culture of participative management? If 'YES', Indicate the levels of participative management.**

Yes. The College promotes a culture of participative management through coordination and consultation with senior member of the faculty.

- There is a College Council, which consists of the Principal, IQAC coordinator, all the Heads of the Departments, the Librarian, the Bursar and two elected members from the teaching staff, which takes all major decisions regarding academics and discipline.
- The Principal appoints the faculty to various key positions like Staff Advisor, Chairman of various Committees like Anti-ragging Committee, Discipline Committee, Grievance Redressal Committee, Anti sexual Harassment Committee of Women, Student Admission Committee, and Students' Union Election Returning Officer, Examination Chief Superintendents, etc. These coordinators, in consultation with the Principal, adopt appropriate modus operandi in discharging their duties.
- There are other committees too which aim at the integral growth of the students through their various activities.
- All the faculty work together hand in hand with the Principal, making the functioning of the College a smooth affair.
- Apart from monitoring the activities, the Principal gives necessary guidelines and lays down norms in curricular and co-curricular matters.
- In staff meetings the Principal briefs about these programmes and invites suggestions from the faculty for further improvement of the programmes.

Thus, a unified and concerted effort from one and all, helps the Institution in its onward march with focus on higher benchmarks. As for Departmental matters, the Head of the Department takes decisions in consultation with the Department members.

## **6.2 Strategy Development and Deployment**

### **6.2.1 Does the Institution have a formally stated quality policy? How is it developed, driven, deployed and reviewed?**

Yes. The Institution aims at academic excellence of its students, through quality higher education and moral value inculcation. The Institution is run by the Carmelites of Mary Immaculate (CMI), a religious congregation of Christian Missionaries, founded by St. Kuriakose Elias Chavara, a versatile figure of his time, who envisaged education as a tool for reformation.



- It is from this seer that the College has developed its policy which has always helped it to work for the enlightenment of the society.
- It follows the Vision stated in the CMI education policy statement issued by the CMI General Department of Education, Kochi.
- The thrust of the Institution is the overall development of its stakeholders and therefore, the Institution is always vigilant to the needs and goals of the society and formulates its action plans in accordance with them.
- The action plan, thus formulated by the Management, is meticulously implemented in the College through various forums.
- Prior to the implementation of the action plan, there is a thorough discussion with the staff, students, and the representatives of the guardians and the alumni, and their suggestions are incorporated into the already formulated policies.
- However, this policy and action plan is not permanent. They are subjected to periodical scrutiny and revision so as to assess their relevance and appeal in the existing scenario and necessary changes are made to meet the needs of the time.

### **6.2.2 Does the Institute have a perspective plan for development? If so, give the aspects considered for inclusion in the plan.**

The Institution has a definite plan for its development. Apart from being one of the major institutions for disseminating knowledge, it aims at achieving the status of an autonomous institution, which will render it more flexibility and more responsibility in the design and modification of the existing courses and syllabi. Since it has many distinguished academicians among its faculty, the College even aspires to achieve the status of a Deemed University. True, it has miles to go to achieve this goal, but it has the necessary potential too. In this context it is worth mentioning that the Government of Kerala has recommended the College to grant autonomous status. Besides, the University of Calicut has recommended to UGC to confer the College as a Centre with Potential for Excellence.

There are several aspects which the Institution stresses in its developmental plans. It strives for excellence on three fronts-institutional, curricular and stakeholder-wise.

- The first thrust is to enhance its research culture. Since the last accreditation, four of the PG Departments have been elevated to the status of Research Centres and now the College has six Research Centres in total. More than eighty percentage of the faculty have research degrees and 21 of them are research guides. The College has been sanctioned FIST grant during the last year and has many major and minor research projects to its credit. The College has started five PG programmes, of which one is in the aided category and eight UG programmes in the self-financing category.
- Introduction of new courses has brought about striking changes in the curriculum offered to the student community. These skill-based courses broaden the employability of the students.
- At the same time, the College is always in the forefront to realize the dream of higher education of all its stakeholders, rich or poor, privileged or unprivileged. The opportunities are open to all. The College offers free-ships, scholarships and relaxations even in tuition fees to attract all categories of students.
- Apart from achieving the above three goals, the College enthusiastically promotes activities which spread the message of environmental protection. In the former Plan Period it had offered a PG Diploma in Disaster Management under the UGC scheme of innovative programme. At present, it offers a PG course in Environmental Science and a PG Diploma course in Green Energy and Sustainable Technologies, which not only train students for the course but mould them as apostles of environmental protection. The College has set apart 20 cents of land (Double the area of Kerala Government stipulation) - *Santhisthal*- for Biodiversity Protection. The Department of

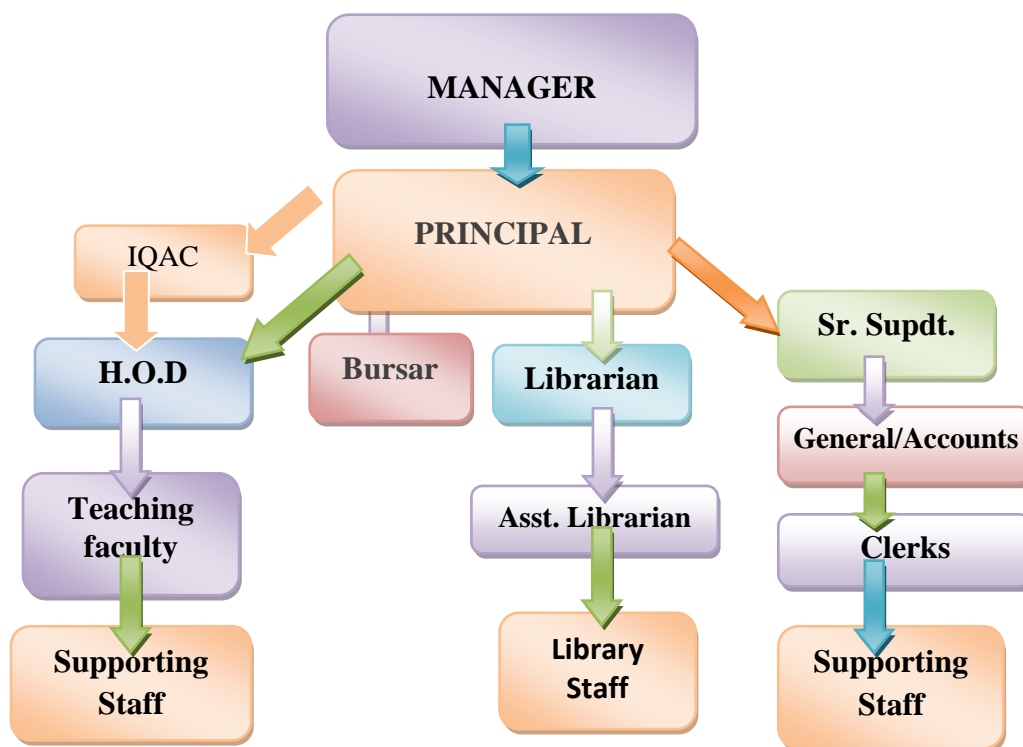


Botany and Biodiversity Club have planted nearly 25 saplings of RET plants at *Santhisthal*.

Mere starting of new courses and Research Centres need not necessarily promote a proper academic culture, unless it is supported by necessary infrastructure and instructional facilities. So the College takes care to provide quality staff, well equipped labs, ample space and other infrastructure for effective classroom teaching. Besides these, the College plans to build Conference and Seminar Halls, a Guest House and a new Indoor Stadium of international standards. It also intends to start job-oriented courses like Fashion Technology, Multimedia, Fish Bio-Technology etc. The stakeholders are from a rural background and the College sees to their satisfaction by keeping them informed of employment drives and recruitments. The College invites companies to conduct campus recruitment drives. It also gives coaching for Civil Service Examinations in the campus.

### 6.2.3 Describe the internal organizational structure and decision making processes.

The flow chart of the Organizational Structure of the Institution is as given below.



The College has a strong organizational framework which gives emphasis to decentralization in the decision-making process both academic and administrative matters. The Principal, who is appointed by the Manager, fosters the Institution in administrative, academic and public enterprises. He is assisted by the Vice Principals. The Superintendent and Bursar of the Institution manage the administrative and financial matters to a great extent. The IQAC takes care of enhancement and sustenance of quality and excellence.

### 6.2.4 Give a broad description of the quality improvement strategies of the institution for each of the following

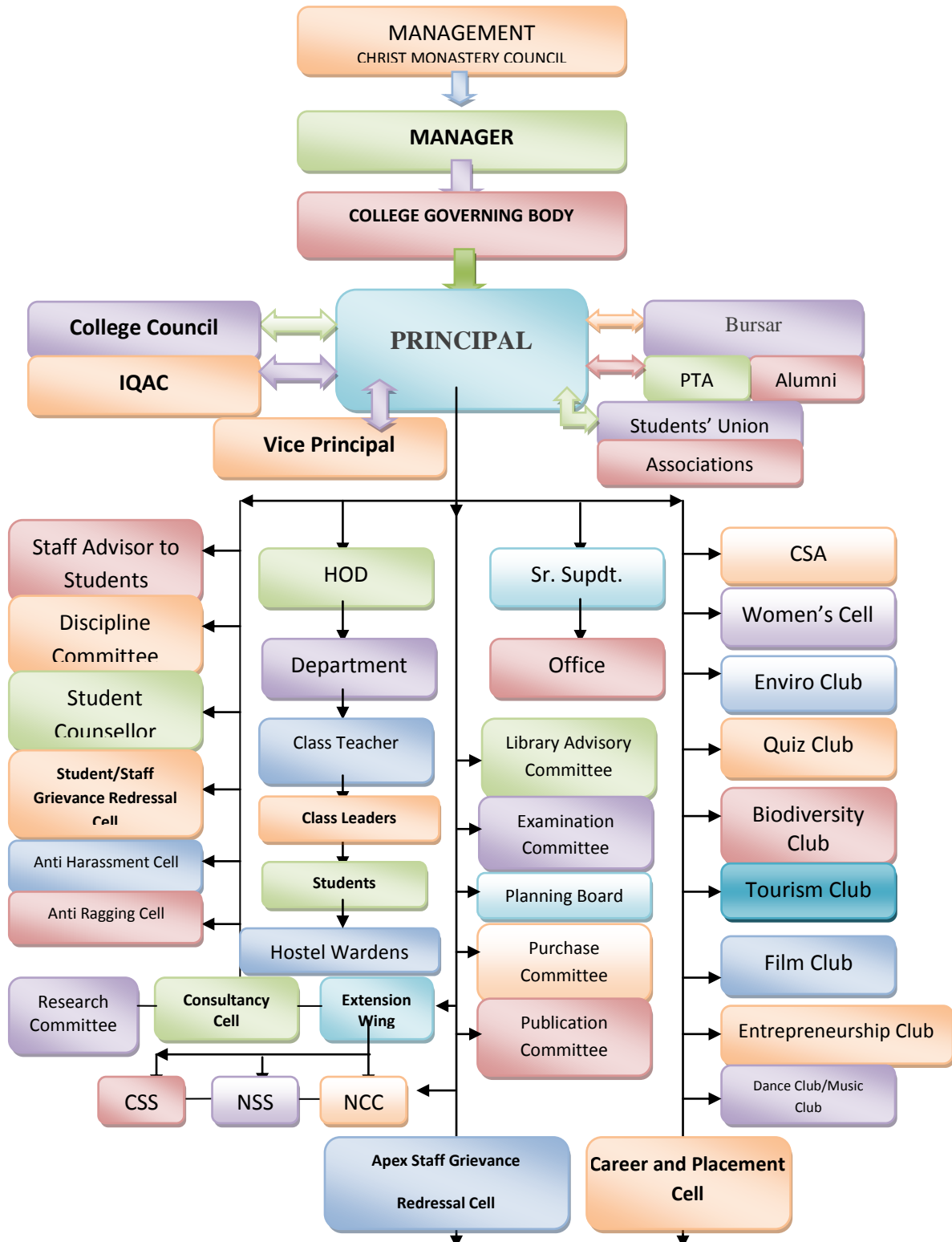
#### Teaching & Learning:

- To get the best available faculty, strict priority is given to the academic achievements of candidates.
- Constant grooming of the faculty is done through professional development programmes conducted by the College and by the University.



- The College encourages the faculty to utilize the opportunities for attending orientation and refresher courses, so as to augment their competencies in teaching.
- It provides adequate facilities that promote the shift from teacher centred teaching and learning to student centred teaching and learning. An academic calendar prepared at the beginning of the year is strictly adhered to, so that the syllabus and the evaluation process are completed in time.

### The decentralized decision-making process followed by the College







- Internal assessment is conducted strictly according to the stipulation of the University.
- A system of class teacher-student interface is followed to identify the learning disabilities.
- The PTA meetings help to keep constant track of the performance of the students.
- The College offers remedial coaching programmes, scholar support programmes, walk with a scholar programme and erudite lectures for the weak students.
- Students also have the chance to achieve cent percentage computer literacy, to develop personality traits and communication skills and to improve soft skills which help them succeed in placement drives.

#### **Research & Development:**

- A Research Committee has been constituted to promote research culture among the faculty by encouraging them to submit proposals for funding.
- The College encourages and motivates the teachers to take up research projects, and fosters a culture of research among students and staff.
- The College collaborates with other educational institutions and industries to give an impetus to research.
- The Principal investigator is given complete freedom to utilize research grants, subject to the conditions and norms fixed by funding agencies.
- CCRF of Rs 2,50,000/- for research students.
- Every effort is made to strengthen the quality of research by periodically equipping the laboratories with state-of-the-art equipment, and the library with current publications in all disciplines.

#### **Community Engagement:**

The NSS, NCC, and CSA units conduct many programmes beneficial to the community. The policy of the College is to mould the students as socially responsible and committed individuals.

- Rural development through participation of Local Bodies in various programmes organized by NSS.
- Students and teachers visit old age homes and rehabilitation centres in the locality to inculcate the value of social commitment.
- Every month, the students distribute noon meals for patients of Government hospitals.
- A blood donation camp is held annually in the College.
- Students generate funds through various activities to help the needy poor in the local community.
- Students take free tuitions for the children in the colonies adopted by the NSS.
- Anti drug awareness programmes are conducted.
- Awareness programmes regarding environment conservation and judicious use of water
- The Department of Social Work is engaged in various community extension programmes as part of curriculum and otherwise.
- Compulsory Social Service for all UG programmes as per University stipulation.

#### **Human Resource Management:**

The strategies undertaken for quality improvement in Human Resource Management are:

- Sharing of responsibilities for implementation of academic and extension activities.
- Planning for deployment of human resources for optimum efficiency
- Inviting guest lecturers and peers.

The College offers value education classes for the students, to bring them closer to the Vision of the educational policy. It strives for the maximum efficiency of faculty by providing ample opportunities for participating in research and scientific work.

#### **Industry Interaction:**

The strategies undertaken for quality improvement in College-Industry Interface are:

- Collaboration with industries for students' training.



- Inviting experts from industries to deliver lectures on entrepreneurship development. Organizing industrial visits and placement camps for students.

### **6.2.5 How does the Head of the institution ensure that adequate information (from feedback and personal contacts etc.) is available for the top management and the stakeholders, to review the activities of the institution?**

The Management gathers essential information primarily from the Principal. The Principal collects impressions from the various committees through periodical meetings and important matters are conveyed to the Governing Body and stakeholders. Moreover, the Principal ensures that the top management and the stakeholders are kept informed about the College activities through the following ways.

- Periodical Governing Body meetings.
- Presentation of the annual College report by the Principal on the College Day.
- The College report published in the College Magazine.
- The important events in the College are publicized through news papers and local news channels.
- Through the monthly issues of NEWS from IQAC DESK, the College Newsletter and College Website.
- The PTA and OSA gatherings held periodically provide platforms for the dissemination of information.

### **6.2.6 How does the management encourage and support involvement of the staff in improving the effectiveness and efficiency of the institutional processes?**

- The Manager stays in the monastery in close vicinity of the campus and is easily accessible to the staff.
- The Manager is also an invitee to most important occasions of the College.
- The Management organizes enrichment programmes for the staff every year.
- The Principal puts up an appreciatory/congratulatory note on the staff notice board about outstanding performance of the faculty in academic, administrative, extension or research activities and also congratulates them at the staff meetings. Moreover, the Principal also announces the names of achievers over the public announcement system.
- The College Council is the most vibrant forum for exchange of ideas and creative suggestions on matters related to the institutional processes.
- The faculty enjoys freedom of expression. Any creative suggestion they approach the Principal with, is discussed in the respective committees and acted upon positively.

### **6.2.7 Enumerate the resolutions made by the Management Council in the last year and the status of implementation of such resolutions.**

The following are the important resolutions made by the Governing Body during the last year:

- Starting of new programmes - B. Com. (Additional batch) B. A. English Literature, M. Sc. Statistics and M. Sc. Geology.
- Initiative to elevate Economics Department to the status of Research Centre.
- Elevating the College to Autonomous status.
- Extension of library block and digitalization of resources.
- Elevating the College to the status of Centre with Potential for Excellence.
- Construction of more class rooms in the main block.
- Steps for the utilization of FIST grant.
- Construction of a new Computer Lab in the Chemistry block.
- New canteen with vending machines.
- Construction of a bridge connecting the Chemistry block and the Main Block.



### **Status of implementation of such resolutions**

New programmes B. Com. (Additional batch), B A English Literature, M Sc Statistics and M Sc Geology were started during 2014-15. The Department of Economics was elevated to the status of Research Centre in December 2015. The process of the College being granted autonomous status, is in progress. The construction of new class rooms in the Main Block and the extension of the library are going on. The construction of the new Computer Lab with sixty computers, new canteen and the bridge between the Chemistry and Main Block were completed. The utilization of FIST grant is in the right direction

#### **6.2.8 Does the affiliating university make a provision for according the status of autonomy to an affiliated institution? If 'yes', what are the efforts made by the institution in obtaining autonomy?**

Yes. The proposal for being accorded autonomous status was submitted and was also cleared by the Kerala Higher Education Council. It is to be noted that out of the 29 proposals received by the Council, the College was ranked fifth and further proceedings for the same are in progress.

#### **6.2.9 How does the Institution ensure that grievances / complaints are promptly attended to and resolved effectively? Is there a mechanism to analyze the nature of grievances for promoting better stakeholder relationship?**

The Institution has a very effective mechanism to attend to the grievances of the stakeholders. Common complaints of a general nature are brought to the attention of the Principal and are promptly redressed.

- A Grievance Redressal Committee has been constituted under the coordinatorship of a male and female faculty to look into and solve the complaints of the students.
- Another committee is in function to address the grievances of the differently-abled students.
- The students are informed of such a support system on the day of admission by the Principal and also through the College Handbook.
- An anti-ragging cell is functioning in the College to address related issues.
- The PTA meeting provides a chance for the parents also to present their grievances.
- The other ways of redressing grievances are through the Class teacher system, the Students' Union, the class representatives, and counselling.
- The Anti Sexual Harassment Cell of Women has been functioning in the College since 2001 as per the guidelines with the Hon. Supreme Court. The Chairperson of the Committee is senior the most lady teacher and members are the Vice Principal, two lady teachers and one Advocate.
- When the grievance is concerned with harassment in public facilities like transportation, the complaints are forwarded to the public authorities concerned.

In order to attend to the grievances of the staff, the College has a two-tier grievance redressal mechanism, with the Principal as the Chairman, three senior Heads of Departments, one lady teacher, and the Superintendent of the Office as members. All the grievances of staff are initially addressed by this committee and generally get solved. There is a second higher level committee, called the Staff Complaint Redressal Apex Committee in which the Principal is a non- member. In the Apex Committee the Manager of the College is the Chairman and the CMI Education Secretary and the legal advisor to the College are the members. Through the Apex Committee one can register a grievance about the Principal of the College also.



**6.2.10 During the last four years, had there been any instances of court cases filed by and against the institute? Provide details on the issues and decisions of the courts on these?**

There has been no instance of court cases filed by or against this Institution during the last four years.

**6.2.11 Does the Institution have a mechanism for analyzing student feedback on institutional performance? If 'yes', what was the outcome and response of the institution to such an effort?**

The College has a very efficient mechanism to collect feedback from students on institutional performance every year. The IQAC has prepared questionnaires for this in a prescribed format. The student evaluation on teacher performance is done in three phases. In the first phase the teacher collects feedback from the students. At the second level a confidential evaluation is made by the Principal on teacher performance and the final one through the PTA. Apart from this, students are requested to give oral feedback about their experiences in the College during their send off meetings. The class teacher-student interactive sessions is yet another opportunity for teachers to find out what the students feel about the classes and Institution. The Principal also holds unofficial meetings with students to collect their impression on teacher performance.

The feedback received from students is analyzed by the respective teachers and corrective measures are taken if necessary. The Principal analyzes the confidential responses collected by him and gives a summary of the same to the respective teacher. He also discusses the matter with the Head of the Department and requests to take necessary remedial steps. As an overall impression more than eighty percentage of students are of the opinion that the Institution has maintained a very harmonious atmosphere, with pleasant academic environment and with lot of platforms for co-curricular, extracurricular, cultural and sports programmes.

### **6.3 Faculty Empowerment Strategies**

**6.3.1 What are the efforts made by the institution to enhance the professional development of its teaching and non teaching staff?**

Involvement in research activities is treated as one of the outlets for exposing the professional talents of the teaching faculty. Acknowledging this fact, the College promotes all initiative from the part of the teaching faculty for research oriented programmes.

- The College gives wholehearted support to the faculty to pursue their Ph.D. even availing the FDP provision.
- The faculty have been always encouraged to conduct sponsored and self-funded national and international seminars, workshops, conferences in the campus to get an exposure to emerging trends.
- College also gives ample boost for the publication of peer reviewed as well as non-peer reviewed papers in various publications.
- Duty leave is sanctioned to those who attend seminars, camps, conferences, and refresher and orientation courses.
- The Management even encourages and sponsors teachers to attend seminars and workshops related to quality enhancement, technology upliftment, etc.
- Experts from other institutions are invited to provide classes to the faculty especially on modernized teaching methods including use of ICT.
- The College provides the latest technological aids, ICT facilities and training in the same, besides full time internet facility, to enhance the professional competence of the staff. Teachers have been advised to find diverse funding agencies for conducting research projects.
- The College also provides a well equipped library.



- The annual orientation programme aimed towards reorienting the faculty towards their profession is usually handled by renowned academicians and educationists. The College takes due care to promote the professional competence of its non-teaching staff also. The latest electronic gadgets have been provided for the effective functioning of the administrative matters of the College. They are encouraged and promoted to develop their personal and administrative oriented specialization. The College ensures the effective functioning of the non-teaching staff through regular monitoring. The non-teaching staff is given yearly orientation classes to improve their quality and to familiarize them with latest technological advancement necessary for the effective functioning of the Institution.

### **6.3.2 What are the strategies adopted by the institution for faculty empowerment through training, retraining and motivating the employees for the roles and responsibilities they perform?**

In the Management system of the College, the responsibilities are defined and put into action through the Principal of the College. In addition to teaching-learning and evaluation duties, the Principal assigns duties like coordinatorship of various curricular and extracurricular bodies to the faculty.

The strategy of the Institution is to provide maximum opportunities for the empowerment of faculty and administrative staff so that they will be equipped to perform their responsibilities.

- The faculty is compulsorily asked to attend orientation programmes and refresher courses organized by UGC.
- The faculty, especially freshers, are encouraged to attend leadership workshops and classes in pedagogy.
- Classes to introduce the faculty to the CCSS syllabi revision, new assessment methods and skill upgradation programmes for non-teaching staff are organized.
- Frequent interaction with the Management also helps the teachers to be motivated and self-corrected.
- Support for administrative staff by experts in the faculty for the use of computational and administrative software, MS Office, salary computation, etc
- The coordinators of administrative and extracurricular activities are permitted to arrange classes and take special leave for organizing various activities.

### **6.3.3 Provide details on the performance appraisal system of the staff to evaluate and ensure that information on multiple activities is appropriately captured and considered for better appraisal**

In order to have an introspective evaluation, self-appraisal is collected from the faculty by the IQAC every year. Teachers' self-appraisal and their appraisal by the Head of the Department, the Principal and the Manager are mandatory for promotion to higher grades of service. A format is prepared for this according to the guidelines of UGC. The main thrust of the format is involvement in research activities, consultancy and extension, teaching experience and qualification. The forms are collected and evaluated by the Management and necessary and timely feedback is given.

Apart from personal appraisal system, the following mechanism is also in practice to ensure the collection of appropriate information.

- The Management assesses the efficiency of the teachers through students' feedback on teacher performance. At this stage a feedback form is given to each and every student and they are asked to grade the teacher on a given scale. The questionnaire comprises of the following components: academic expertise and upgradation, attitude and behaviour towards students, commitment to the profession, use of modern technology



in teaching. The questionnaire is personally collected and studied by the principal and the management gives necessary feedback to the teachers.

- The occasional staff meeting is another platform to evaluate the performance of the teachers both at academic and administrative level.
- The Departmental meetings are another venue to discuss common problems faced by the teachers and to take necessary measures. Individual corrections are given, if required.
- Yearly PTA meeting also help teachers to interact with parents and to assess their performance.
- Class teacher system also helps teachers to get to know the students better and also to amend the procedures of teaching and interaction if necessary.
- The performance of the non teaching staff is also appraised on a regular basis.

#### **6.3.4 What is the outcome of the review of the performance appraisal reports by the management and the major decisions taken? How are they communicated to the appropriate stakeholders?**

The performance appraisal report is scrutinized by the Management and decisions are taken accordingly to ensure further development. A summary of the Performance Appraisal Report is presented to the faculty in a personal interview. Shortcomings, if noticed, are made known to the faculty concerned by the Principal. Best performers are encouraged and personal suggestions and advice are offered to individual teachers with regard to student feedback.

#### **6.3.5 What are the welfare schemes available for teaching and non teaching staff? What percentage of staff have availed the benefit of such schemes in the last four years?**

Being an aided College, the salary of faculty is paid as per the norms of UGC, and other service conditions and privileges are at par with the State Government employees. The non-teaching staff are paid at the State Government Scales, and their service conditions are also at par with the State Government employees. In addition to the welfare measures of the State Government like pension, gratuity, provident fund, state life insurance scheme, group insurance scheme, the Management provides the following for the wellbeing of the staff. These provisions are applicable for all members of staff who are found eligible.

- An interest free loan up to 3 lakhs can be availed by the staff according to the financial position of the College, in consultation with the Management.
- The facility of salary advance may be availed by the staff whose appointments get delayed or by the needy ones.
- Staff quarters in the campus may be availed by the interested ones.
- Hostel facility is provided to the teaching and non teaching staff at a reduced rate.
- Unlimited use of internet facility is another attraction to the teaching and non teaching staff.
- Free use of College infrastructure for individual research.
- The College Auditorium may be rented to the employees at a nominal rate.
- A nursery/crèche facility is offered by the College for the convenience of staff who have infants or children who have not started going to school.
- The College canteen offers quality food at a reasonable rate. A new cafeteria has been recently started by the College which provides light food/snacks.
- The College store also caters to the urgent requirements of stationery items which are sold at a reasonable price.
- A staff grievance redressal cell operates actively in the College.
- An opportunity for family counselling is also arranged by the College, if necessary.



- Separate clean washrooms are provided for male and female staff.

### **6.3.6 What are the measures taken by the institution for attracting and retaining eminent faculty?**

- The Management strictly follows a secular note on the appointment of the teaching staff which has resulted in the accommodation of faculty from various sections regardless of caste and creed. The selection to various positions in the College is unbiased and merit based.
- The self-financing courses have the services of guest faculty appointed by the Management on the basis of their qualification and merit.
- The Management, as a matter of principle, does not accept donations for appointment.
- The good reputation of the College and the consistent performance in academics, sports, research culture, extracurricular and extension activities makes the College a primary choice for its staff.
- Besides, the research orientation, infrastructural facilities, and smooth employee-employer relation of the College compel its staff to stick to this Institution without thinking of any other options. The campus, free of student unrest, is also a highlight of the College.
- The College encourages pursuing research work and grants special leave for attending camps, seminars and conferences.
- The respect and appreciation for genuine work, freedom of expression and impartial and just dealings meted out by the authorities also become factors for the loyalty shown by the staff.

### **6.4 Financial Management and Resource Mobilization**

#### **6.4.1. What is the institutional mechanism to monitor effective and efficient use of available financial resources?**

The Institution has a Financial Management Committee headed by the Principal and a full time Officer viz. Bursar, appointed by the Management, and a Head Accountant and the Office Superintendent to monitor effective and efficient use of available financial resources. The College Council is summoned to enquire the needs of various Departments. The funds are allocated on the basis of the requirements submitted by the Heads of the Departments. A checklist for allocation of funds is drafted by the Financial Management committee. The main sources of funding are the Government, UGC and University. The fee structure of students is fixed by the University. An internal resource mobilization from the contributions made by the faculty, the PTA and well wishers is also done.

#### **6.4.2. What are institutional mechanisms for internal and external audit? When was the last audit done and what are the major audit objections? Provide the details on compliance.**

The accounts of the College are audited regularly by the competent authorities through three Phase Audit mechanism as follows:

1. Internal Audit Mechanism of the College.
2. Departmental Audit by the Zonal Deputy Directorate of Collegiate Education, Thrissur.
3. Audit by the Office of the Accountant General of Audit, Thiruvananthapuram.

Internal Audit is conducted once a year by the Audit Agency K.J. Anto & Co., Panampilly Nagar, Cochin. Last audit was conducted in November 2013 and the accounts upto the financial year 2012-13 were audited. Another internal audit agency is Mr. T.I. Joseph, Chartered Accountant, Irinjalakuda. The half yearly/quarterly audit of accounts is done by this agency.

The Departmental audit of the accounts of the duration 1-6-2008 to 31-5-2010 was conducted from 17-2-2014 to 25-2-2014 by the Deputy Directorate of Collegiate



Education, Thrissur. Report of this audit is awaited. No major audit objections are pending in the previous audit reports.

The audit of the Accountant General for the accounts up to the financial year 2012-'13 was conducted from 2-1-2014 to 4-1-2014. No major audit objections were reported.

**6.4.3. What are the major sources of institutional receipts/funding and how is the Deficit managed? Provide audited income and expenditure statement of academic and administrative activities of the previous four years and the reserve fund/corpus available with Institutions, if any.**

The major sources of institutional receipts are the Plan-wise grants received from the UGC for various developmental activities, the fees collected from students, from the PTA fund and from well wishers.

**UGC Grant Received from 1-1-10 To 31-12-14**

Sl. No.	Items	1-1-'10 31-3-'11	01-4-'11 31-3-'12	01-4-'12 31-3-'13	01-4-'13 31-3-'14	01-04-'13 31-12-'14
1	PG Grant	3490000		113788		
2	UG grant	201552	340000			
3	Merged Scheme	1717000	360000	281250	87500	
4	Civil Service Coaching	512995		129500	87500	
5	Add-on Programmes	700000	153000			1530000
6	Infrastructure Development	1000000				
7	Additional Development General Development	1250000	10000000		5890319	500000
8	FIP	572307	1098704	1628677	288960	
9	Minor Research Projects	12500	207500	349200	244500	362512
10	Travel Grant	147951		109141		
11	FIP Contingency	75000	30000	30000		30000
12	Seminar	85524	166500	412	183750	
13	Development of Sports Infrastructure		250000	850000		480000
14	PTAC		14071	2058		
15	Professional Course BPE/Functional English	120000		80000		
16	Women's Hostel			2200000		
17	IQAC				300000	
18	PG Diploma in Disaster Management	599888	32000	1162138		
19	Research Projects		132861	960800		752800
20	PG Diploma Innovative Programme				39640000	

**Income from various sources**

Sl. No	Items	2010-'11	2011-'12	2012-'13	2013-'14
1	Fee collection	1076833	1131287	1390994	1308940
2	Management's contribution	1487069	4747080	2113379	5124630
4	Well wishers' contribution	125000	932530	1945000	2631000





5	PTA Contribution	40300	504355	477100	745830
6	State Government Grant	791269	855847	236797	733265
8	Interest	265724	266806	211042	388544
9	Hostel	50000	50000	50000	50000
10	Women's Development Cell	7215	7225	21010	62580
11	Others	40800	48250	52500	59940

#### **Student Activities Budgetary Expenditure**

Sl. No.	Items	2010-'11	2011-'12	2012-'12	2013-'14
1.	Sports	147352	113535	157215	117254
2.	Women's Development cell	7340	7617	9757	24274
3.	Infrastructure		250000	250000	600000
4.	Library	96015	76710	104463	170667
5.	Lab oratory	217394	278723	293565	415187
6.	Medical Inspection	4975	4855	4880	5240
7.	Visual Education	49750	20200	36456	36900
8.	Scout	7340	7220	7746	7935
9.	Association	36421	36508	21713	49634

#### **6.4.4. Give details on the efforts made by the institution in securing additional funding and the utilization of the same (if any)**

The major resources of the Institution include Management, UGC, FIST, faculty, College Development Fund, PTA membership, Self-financing Course fee, etc. For securing additional funding the Management takes loan from Devamatha Provincial House. If needed, collection is taken from students to provide additional amenities in the College. College makes a minor profit from the running of the store, canteen, cafeteria and the Photocopy store, etc.

### **6.5 Internal Quality Assurance System (IQAS)**

#### **6.5.1 Internal Quality Assurance Cell (IQAC)**

**A: Has the institution established an Internal Quality Assurance Cell (IQAC)? If 'yes', what is the institutional policy with regard to quality assurance and how has it contributed in institutionalizing the quality assurance processes?**

In pursuance of the directives of the NAAC, the IQAC of the College was established on 20<sup>th</sup> November, 2003 as a post accreditation quality sustenance activity. The IQAC of the College has its clear Vision and Mission statements.

**Vision:-** To function as an instrument to propose realistic and attainable quality benchmarks for academic and administrative activities, and to help the Institution to grow with sustaining quality.

**Mission**

- To arrange for periodic setting up of quality benchmarks for the Institution in its quest for excellence.
- To evaluate, refine, redefine, coordinate and to provide the mechanism for quality enhancement of the Institution.
- To shoulder the responsibility for generation, promotion and continuous improvement of innovations in curricular, co-curricular and extracurricular activities.



- To direct all the activities of the Institution towards the enhancement of the learner's knowledge capacity and personality through values.
- To arrange for regular interaction with the NAAC, and preparation and submission of Annual Quality Assurance Reports and Self Study Reports.

The College has a stated policy on quality assurance to achieve excellence in all the aspects of higher education and for the holistic development of students. The Vision and Mission of the College reflects the same aspects.

Since the day of inception, IQAC acts like an agency to catalyze quality sustenance and enhancement. It directs and monitors all developmental activities of the College

**B: How many decisions of the IQAC have been approved by the management / authorities for implementation and how many of them were actually implemented?**

The College Council and College Governing Body have always approved the steps taken by IQAC to achieve quality enhancement. The IQAC has been accorded freedom to evolve strategies for planning of all the academic and curricular activities. Following are some of the initiatives taken by IQAC for quality upliftment.

- To start new programmes in UG and PG level.
- To enhance eligible PG Departments to the status of Research Centres and to promote more research opportunities.
- To prepare and follow academic calendars for the teaching learning process.
- To enhance the resources in the library to promote research.
- To procure funds for undertaking major and minor research projects.
- To promote Departments to conduct more academic conferences and seminars.
- To conduct more value added programmes.
- To conduct annual campus evaluation on all aspects by collecting feedback from its stakeholders.
- To improve the infrastructural facilities to cater to ICT enabled teaching.
- To utilize the funds offered by UGC effectively according to the requirements of Departments.
- To provide more classrooms for accommodating the newly started programmes.
- To provide more residential facilities for girl students in the hostel.
- To take steps for rain water harvesting.
- To install solar panels for saving power .
- To streamline the activities of various Clubs, especially that of Biodiversity Club, *Bhoomithrasena* Club and NSS , in order to maintain an eco-friendly campus.
- To organize more programmes which point towards the social responsibility of the Institution and through which the community could be benefited.

During the last four years the IQAC has conducted three State level seminars, of which one is NAAC sponsored. The IQAC played an instrumental role in securing the FIST grant offered by DST for the College. The IQAC took the initiative to enhance the College to autonomous status when the Government of Kerala, as its policy decision, offered an opportunity in the Higher Education sector. The Government of Kerala has recommended the College to be granted the same by the UGC, and the College is now waiting for its fulfilment.

**C: Does the IQAC have external members on its committee? If so, mention any significant contribution made by them.**

Yes. During the last four years, IQAC has four external experts from academic and industrial sectors. Their inputs and encouragement to enhance quality of education are highly commendable. Dr. K. Radhakrishnan, former ISRO Chairman and one of the



alumni is one among them. He visited the College during 2014-15. He delivered a very inspiring talk to the students during his visit. The interactions with industrialists enable us to know the needs of the employment sector and start new career oriented Add-on programmes accordingly. Their association with the College also helps to accommodate PG students for doing industry related project work. The involvement of the members of the Local Body in IQAC helps to locate the pockets in the surroundings, where community services are required.

**D: How do students and alumni contribute to the effective functioning of the IQAC?**

The senior most research student is an ex officio member of IQAC. Presently, Ms Preeji K P, research scholar in the Department of Zoology, is the students' representative. Presence of student representative in the IQAC helps in the identification of their needs and opinions, thereby leading to the proper resolving of these. The Vice President of the OSA is also an ex-officio member of the IQAC. The OSA have evinced significant interest in the functioning of the IQAC. They are the torch-bearers of the reputation of the College to the outer world, by virtue of their positions and achievements.

**E: How does the IQAC communicate and engage staff from different constituents of the institution?**

The IQAC is so constituted that each Department has a contact person for IQAC, who links the Department with IQAC. Apart from these members, larger Departments have IQAC coordinators who also act as contact persons for easy and smooth coordination of the activities. The on-line communication between IQAC and Departments makes connectivity easy and fast. The display of clippings in the IQAC News-board makes the communication live. IQAC coordinator also acts like a mediator to communicate the feedback of students and staff to the Management, through frequent interactions with the Principal. Moreover, the coordinator of the IQAC is also a member of the College Council. It helps to furnish necessary information to the Council and then pass it on to the entire faculty, through the Heads of the Departments.

**6.5.2 Does the institution have an integrated framework for Quality assurance of the academic and administrative activities? If 'yes', give details on its operationalisation.**

The Institution has an integrated framework for quality assurance of both academic and administrative activities.

- The College Council and the IQAC work together with the Principal to ensure the quality of the academic and administrative activities. For this the IQAC proposes an academic plan to the College Council. After sufficient consultation, the College Council approves the plan and the Principal implements this academic plan through the Heads of the Departments.
- Internal audit is conducted annually and the outcome is discussed in the IQAC and College Council meetings at the beginning of each year, to make necessary changes and improvements. The audit helps to identify areas for improvement and suggests ways to rectify them the defects.
- The College has constituted various committees for the smooth conduct of all academic and administrative activities under the co-ordinatorship of the faculty.
- The Office Superintendent and Head Clerk take care of administrative work with the help of junior clerks and other non-teaching staff.
- The Principal monitors and guides academic as well as administrative work regularly. For this, he holds regular meetings with the teaching and nonteaching staff, wherein an open discussion on issues is entertained before taking a final decision.
- The faculty and the non-teaching staff work in harmony for attaining the goals of the Institution.



- The Governing Body of the College meets regularly to discuss and ensure quality in academic and administrative activities and also to give proper directions for quality assurance.

### **6.5.3. Does the institution provide training to its staff for effective implementation of the Quality Assurance procedures? If yes give details enumerating its impact.**

The College provides ample training to its staff for effective implementation of the Quality Assurance procedures. The IQAC has organized a number of quality assurance programmes including NAAC sponsored seminar for faculty, so that they could be trained in the latest trends and procedures. The various Departments of the Institution conduct international seminars, national seminars and workshops to give an exposure and awareness to the teachers in the different realms of quality Assurance. The Faculty are encouraged to attend seminars and workshops held on quality culture and quality imperatives held in other institutions also. The College also invites erudite experts from different fields and they give orientation and conscientisation lectures and classes on various aspects of maintaining standards and quality in education and life.

### **6.5.4 Does the institution undertake Academic Audit or other external review of the academic Provisions? If yes, how are the outcomes used to improve the institutional activities?**

The College conducts internal academic audit at different levels.

- The Internal Quality Assurance Cell conducts Academic audit of the Departments annually. Department visits are regularly conducted to verify the implementation of their action plans.
- The Heads of Departments monitors timely execution of the academic calendar given from IQAC Office, and in case of insufficient teaching days to compete the target, special classes are arranged.
- Regular assessment programmes like internal exams, assignments and seminars are conducted to ensure effective implementation of academic activities.
- Departmental meetings and staff meetings are convened to discuss the progress in the teaching learning process.
- The College Council also discusses and reviews the academic performance regularly.
- Oral and written feedback from students regarding the academic activities.

External audit is made by the University through the results of University exams and measuring student progression to higher studies and proficiency shown in the campus recruitments. University audit of the institutional activities is held in connection with approving a Research Centre or a new academic programme

#### **Outcome**

- Sanction was accorded to start 13 new programmes, of which one is aided stream and others are in self- financing stream.
- Four PG Departments were enhanced to the status of Research Centres.
- More ICT enabled facilities were introduced to conduct technology oriented teaching learning process.
- SWOC analysis and the feedback mechanism put forward valuable suggestions, which are implemented at the Departmental and Institutional levels for improvement.

In this context it is worth noting that an external review by the Higher Education Council Department of the State Government was conducted in connection with enhancing the College to autonomous status and the team recommended the Institution for the same.



### **6.5.5 How are the internal quality assurance mechanisms aligned with the requirements of the relevant external quality assurance agencies / regulatory authorities?**

The IQAC of the College prepares an elaborate academic calendar and it is executed properly as a mechanism for the internal quality assurance and the various Departments of the Institution also have a faculty-wise academic calendar. The Principal as the Head of the Institution closely supervises the execution of this academic calendar. The IQAC acts as a path finder for the faculty to attain the quality standards fixed by the NAAC and works fulltime implementing, reviewing, improving and assessing the academic performance to ensure the quality sustenance of the Institution. Feedbacks from students, parents, alumnae and employers help in assessing the academic performance of the Institution. The College makes all efforts to fulfill the objectives of the affiliating University. Its annual performance report submitted to the NAAC through Annual Quality Assurance Report gives the Institution an opportunity to take stock of its strengths, weaknesses, opportunities and challenges every year and to rectify the shortcomings.

### **6.5.6. What institutional mechanisms are in place to continuously review the teaching learning process? Give details of its structure, methodologies of operations and outcome?**

The Institution has different mechanisms to review the teaching learning process at teacher performance and student performance level.

- The faculty assesses the effectiveness of their teaching by a self evaluation, through feedback collected directly from the students, using the questionnaire prepared according to the guidelines of UGC. The Principal reviews the teaching learning process through an evaluation of teaching from the students, regarding all the teachers of the Institution. Students are given opportunity to share oral feedback during the send off meetings. Based on these assessments, the Principal takes necessary measures to improve the teaching learning process.
- The Institution has a continuous internal examination schedule to evaluate the teaching learning process and there is an internal examination Committee to monitor the internal examinations. The Examination Committee conducts two internal examinations in each Semester and the second examination is a model examination so that students get prepared for the University/ External Examination. Each teacher prepares the concerned question paper, hands it over to the Examination Committee through the Head of the Department. These examinations are conducted in a centralized manner. Each teacher evaluates the answer scripts and distributes them in the class within the stipulated time. At the end of each semester the scores of the internal assessment, which consists of two examinations, an assignment and a seminar, are published on the Department noticeboard. Based on the results of the internal exams, the parents of the student are called for a meeting, at which the teaching learning process is evaluated. The parents are informed the internal marks and each student has a discussion and review regarding his/her performance with the teacher concerned in the presence of his/her parents. The Institution also has a quarterly review of the results of the students in the staff meeting. The class teacher system helps to identify the weak students through his/her frequent contacts with students and to provide remedial teaching to those students. The IQAC is another mechanism which reviews the teaching learning process in its regular meetings.

### **6.5.7. How does the institution communicate its quality assurance policies, mechanisms and outcomes to the various internal and external stakeholders?**

- The Institution communicates its quality assurance policies through the Heads of the Departments, IQAC members in the various Departments, class teachers and class representatives.



- The College Website is the best and most accessed medium of communication for external stakeholders.
- The College Prospectus, Handbook, College Newsletter, College Annual report, College Magazine are the other means of communication.
- Parent Teacher meetings, OSA meetings, Governing Body meetings also serve as different modes of communication.
- The monthly Newsletter of the IQAC – NEWS from IQAC DESK which covers all the activities of the College and the Annual Quality Assurance Report of the IQAC is vital sources of communication for the Institution.



College Union Inauguration



College Union Election



Film Club



Biodiversity Club



Music Club



Anti Alcoholic Move







## CRITERION VII

### INNOVATIONS AND BEST PRACTICES

Apart from the usual academic programmes and those associated with day- to-day student activities, the College gives due importance to certain programmes which are relevant in the present scenario and will develop the social awareness of the students. These activities are spearheaded by various clubs functioning in the College, with the active participation of students, under the guidance of the faculty and the Principal. Among these, Adventure Club, Biodiversity Club, Tourism Club and *Bhoomithrasena* Club require special mention.

#### 7.1 Environment Consciousness

Christ College is the only College that offers M.Sc. Environmental Science Course under the affiliated University. The innovative PG Diploma programme in *Sustainable and Green Energy Technologies* was started by the College during the academic year 2013-14. The important days like Earth day, World Environment day, International Biodiversity day, World Wetland day, Ozone day and World Bamboo day are celebrated in the College by conducting seminars and awareness talks by eminent and renowned personalities. Nature and wildlife photography exhibitions are conducted in the College jointly with recognized photographers of Kerala.

Among the various activities initiated, the Forest and Nature Study Camps conducted by the Adventure Club and *Bhoomithrasena* Club at Parambikulam Wildlife Sanctuary, Chimmony Wildlife Sanctuary, Silent Valley National Park, Athirappilly forest and Wayanad Wildlife Sanctuary deserve special mention.

Awareness Display Boards are exhibited in the campus to generate environment consciousness among the student community. The College maintains a Mini-biodiversity Reserve with a number of domesticated wild animals in the campus abiding by strict rules and with the consent of Department of Forest, Government of Kerala. A total of 489 species of diverse plants are found in this campus, which bagged the first Green Campus Award instituted by the University of Calicut during 2013-14. This lush green campus acts as a tourist centre and is visited by a number of people, especially kids and school children from the nearby community. The flora and fauna of the College give an unparalleled experience to any passerby who steps into the campus.

The Museums, attached to the Departments of Zoology and Geology, are centres of attraction of students in and out of the campus. In a joint venture, the faculty, students and the Forest Department cleaned the area between the well known tourist places Thumburmuzhy and Athirapilly, which was later declared as a plastic free zone.

#### 7.1.1 Does the Institute conduct a Green Audit of its campus and facilities?

Yes. The College conducted energy audit, water audit, waste audit and vegetation/ ecological audit of the campus under the leadership of the Department of Environmental Science in 2013-14. The details are as follows.

##### ➤ Energy audit

- Two months' average energy consumption of Christ College is 10,232 units.
- Two months' average solar energy production is 1034 units.
- The highest energy consuming units are the Physics lab, the Library and the College Administrative Office.
- The College Administrative Office, the Principal's Office, IQAC Office, Exam coordination room, Seminar Hall and five classrooms are working exclusively on solar energy.
- Energy efficient LED and CFL lamps are used in the campus.



- **Water audit**
  - Average per day water consumption in the College is 3200 litres.
  - During monsoon season, 70% of the total water consumption is from rainwater, which helps to save energy and power.
  - The Department of Chemistry uses rainwater instead of distilled water to a great extent.
  - The highest consumer of water is the Chemistry UG lab. The other top consumers are the PG and research labs.
  - Weekly water consumption of Chemistry lab is about 1256 litres.
  - Annual rainwater harvesting is approximately 10.86 lakh litres.
- **Waste audit**
  - Waste generated from the College is classified in to four groups namely, biodegradable waste, non-biodegradable waste, hazardous liquid waste and non-hazardous liquid waste.
  - Solid waste generation per month is about 750 kg, of which about 79% is biodegradable waste.
  - Liquid waste generation per month is approximately about 5000 litres.
- **Vegetation/ecological audit**
  - Annual Vegetation Cover Analysis reveals that total vegetation cover of the College in the current year is 48 acres.
  - The vegetation area is increased by 1.39 acres,
  - Around 300 new seedlings have emerged in the current year
  - 24 new species have been established in the current year.
  - Annual loss due to natural and anthropogenic activities in the current year: 16 trees.
  - 600 ecologically and economically important plants have been planted in this year.

### **7.1.2 What are the initiatives taken by the college to make the campus eco-friendly?**

#### **Energy conservation**

- The College practices an energy conservation approach by changing most of the lighting systems to energy saving CFL and LED systems in the Seminar and Conference Halls.
  - A drive for energy conservation is also carried out by reducing the use of air conditioning systems and also by keeping the A.C. temperature within a wise limit (Within 5-7 degrees less than atmospheric temperature).
  - Awareness notices are displayed in all class rooms for optimum use of lights and electrical appliances
  - Centralized main switches are used in the class rooms.
  - Electronic chokes are used for tube-lights.
  - Computer CRT monitors have been changed to LED and LCD type.
  - The College insists that the students make use of the public transport systems and they are strongly discouraged commuting by private-owned cars in the campus. The use of motorbikes by students inside the campus is discouraged as far as possible, as a part of 'save fuel' campaign.
  - Rainwater Harvesting System: Rainwater harvesting for various Departments in the College and hostels helps to minimize the use of electric motor during the rainy season, and thus, saves both water and electricity. The College uses rainwater instead of distilled water for most of the chemical experiments in the laboratories round the year, thus saving lot of energy for distilling water.
- **Use of renewable energy**
    - **Installation of solar energy system:** Utilizing the financial support from UGC and the Management, solar panels have been installed.



- The power from solar sources is harnessed into 12V, 150 AH tubular batteries (10 numbers) and is effectively used in the Office and in the Principal's chamber. As a result, the College has saved approximately Rs. 10000/- per month by way of electricity charges.
- **Water harvesting**
  - Rainwater harvesting technology is used in the Departments of Zoology and Chemistry, and in the ladies' and gents' hostels.
  - The afforestation programmes in the campus help to augment ground water recharge during rainy season by increasing water seepage through leaf litter.
  - Rainwater harvesting is done through collection in ponds and deep pits in the campus premises and hostels.
- **Check dam construction**
  - Check dams are constructed in the major rainwater run-off ways within the campus.
  - Water harvesting arrangements are made in the College garden. *Thadayanas* are constructed to prevent erosion and allow water to drain down in the garden itself.
- **Efforts for Carbon neutrality**
  - The College maintains a beautiful garden that spans a considerable area of the College premises and consists of several rare species of plants.
  - In order to participate in the world-wide drive for neutralizing the adverse effects of carbon emission, the NSS units have made commendable efforts by planting trees in the *Green Valley*
  - The jackfruit and gooseberry orchard and bamboo and teak plantations are also maintained in the campus in order to promote the drive for carbon neutralization, thereby maintaining oxygen in the campus
  - The programmes 'One Goal One Tree' and 'One Prior Mango Sapling for One House' were initiated by the Biodiversity Club with the objective of reducing carbon footprint.
  - The Department of Botany prepared a flora of the campus and the vernacular, scientific and family names of trees are displayed. A total of 489 species of plants (480 Angiosperms, 4 Gymnosperms, 5 Pteridophytes) have been identified which includes 197 species of trees. The plant biodiversity of the campus is documented with photographs.
- **Plantation**
  - *Harithavalkaranam* Project: In June 2011, 800 trees were planted in the College campus by the staff and students and in 2013, 100 mango saplings were planted.
  - *Vanamaholsavam, 2014*: In the 'One Goal One Tree' and 'One Prior Mango Sapling for One House' programmes initiated by the Biodiversity Club, saplings were planted.
  - The '*Nakshthraanam*' is a plantation drive initiated by '*Bhoomithrasena*' Club and the Department of Botany in the campus. Their saplings are exhibited in the College garden.
  - One acre of the campus land, called the *Green valley* is maintained by NSS volunteers. World Environment Day (5<sup>th</sup> June) is celebrated every year by planting saplings.
  - The Biodiversity Club and the Department of Botany maintain 20 cents as "*Santhisthal*", where the saplings of RET are planted and nursed.
  - The celebrities and renowned persons who visit the campus are requested to plant saplings.
  - Saplings of gooseberry, jack fruit, ficus, teak and several rare plants are planted on the sides of the inner roads of the campus.
  - Students studying animal sciences get extra ordinary opportunities chances to study the behaviour and diversity of birds, butterflies and spiders inside the campus.
  - The Department of Botany has conducted a thorough study of flora of the campus and has documented several medicinal plants and a rare ground orchid.
  - The campus has medicinal plant garden and 110 medicinal plants.



➤ **Management of hazardous waste**

The College has not dealt with hazardous wastes such as radioactive ones or explosives till now. It takes utmost care not to generate hazardous wastes in the campus. The wastewater and chemical and biological wastes as a result of routine practical/research works in UG/PG/Research labs are pipelined into pits, which are pre-filled with charcoal and bricks, to facilitate absorption of hazardous chemicals, if any. The Department of Chemistry has now adopted micro level analysis to reduce the hazardous chemicals.

➤ **E-waste management**

The campus has not yet faced any serious issues regarding e-waste management.

- Some of the computer parts and components are reused (mother board, processor, chip, capacitor etc.)
- Hardware is given to students for study purpose.
- Some of them are used to present in IT exhibitions
- Refurbishment of computer peripherals –the old devices are returned to the authorized company to reduce e-waste
- As far as possible some of the old computers, printers and scanners are auctioned through suitable agencies.
- Special dust bin (Floppies, pen drives, spare parts etc.) is provided for the e-waste management, but such wastes are not common in the College.

## 7.2 Innovations

### 7.2.1 Give details of innovations introduced during the last four years, which have created a positive impact on the functioning of the college.

➤ **Innovations for promoting global development of Information Technology**

**IT Vijnan programme:** An innovative programme of the Institution in which intensive training is given to each student to attain cent percentage IT literacy.

➤ **Innovations in Research:**

- Christ College has instituted five Fellowships entitled CCRF from 2013-2014 onwards.
- Project Presentation Contest and Best Presentation Awards: All the PG Departments conduct the project presentation of students and certificates are given to the best paper presenter.
- Proper utilization of the grants received from FIST, UGC and project funds.

➤ **Innovations in the dissemination of knowledge:**

- Seminar room cum home theatre - In addition to the Auditorium and Seminar Hall a seminar room cum home theatre was constructed for the continuous transmission of observations and inferences in science, sports and literature.
- Technology upgradation: All the Departments are using LCD projectors intensively for effective communication. Students are allowed to submit assignments online to the teachers concerned.

➤ **Innovations for strengthening ICT learning:**

- LAPTOP scheme: Several members of the faculty have availed the benefit of this scheme launched by the IQAC for the effective exchange of information with ICT enabled facilities like LCD projector and power point presentations.

➤ **Innovations in Curricular Design and Transaction:**

- The syllabus of innovative PG Diploma programme in Green Energy and Sustainable Technologies and Add-on programmes in Communicative English, Web Designing, Yoga Therapy and Physical Fitness, Geoinformatics, Seed Production and Culturing of Edible and Ornamental Fishes and Journalism were framed by the faculty of the College.



- For more effective transaction of the syllabi, ICT techniques like smart class rooms, touch screens, LED TVs, LCD projectors and power point presentations are used by many teachers.
- **Day Care Centre:**
  - A Day Care Centre for the children of the College staff and married girl students was started in the College with the financial support of UGC.
- **Innovations for sports promotion and Development:**
  - Christ College Cricket Academy, Department of BPE started a new venture Christ College Cricket Academy to give coaching in cricket to the budding young cricketers of Irinjalakuda.
  - Volleyball Coaching Centre: Volleyball coaching is imparted to the students of the College as well as outsiders in morning and evening sessions.
  - Athletic Coaching and Gymnastics Centre: Facilities are provided for the students who are interested in Athletics and Gymnastics.
  - Shooting Range: A new 10 metre shooting range was set up in the balcony of the College Auditorium in October 2011.
  - New pavilion and gallery in the football stadium: To promote football and motivate the students to foot ball a new gallery was constructed and inaugurated in January 2012.
  - Yoga Centre: The Christ College Yoga Centre was started in December 2011.
  - Foundation Stone for Indoor Stadium: The foundation stone for the **Padmabhooshan Fr. Gabriel CMI Centenary International Indoor Stadium** was laid in December 2014.
  - Summer Camps: The faculty arrange camps for the budding talents among neighbouring school children in Cricket and Athletics during the summer vacation.
- **Innovative Library Services:**
  - The bar coding of the books was completed and the all transactions were fully computerized.
  - The broadband internet facility is provided in the library for all students up to 5p.m.
  - DELNET and INFLIBNET access and Internet connectivity are available in the library.
  - E-learning sources (e-Books, e-Journals) and E-database are also available in the library.
- **Renovation of Administrative Office:**

The College Administrative Office is well equipped and furnished and the provisions of various sections are in a very compact pattern. A strong software 'e-College Solutions' is used for its services.
- **Increase in Infrastructure Facilities:**
  - The facilities in the Research Departments have been improved. The research scholars have been given more facilities in the research rooms. All PG Departments are provided with LCD projectors. Modern equipment was purchased for Physics, Chemistry, Botany and Zoology labs. Interactive boards have been installed. More class rooms have been constructed in the Main and New blocks of the College.
  - The facilities in the canteen were also improved. An extra covered area has been provided adjacent to the canteen building and the cooking facilities were also modernized. A covered car and bike parking area was constructed adjacent to the Main building of the College. Lights and fans have been installed in all classrooms. The toilet facilities for the student community have been increased in all the blocks. The construction of the Ladies Hostel Annex has been completed.
- **Water Analysis Lab**

The service of the Water Analysis Lab of the College is available for the public also. Water samples are tested to identify Chemical, Physical and Biological parameters. The facility is also available for project and research work.



- **Computerization and Internet Access and Training for teachers and students:**
  - The students can download articles and browse relevant websites at the internet café unlimitedly. The PG and research students avail of this facility to the maximum.
  - Apart from this an exclusive Internet access for PG students and researchers is provided in the library.
  - All the Departments of the College are computerized. The faculty use this facility to record students' attendance, to record and discuss the academic performance of the students with their parents, to prepare their progress report and for other Departmental activities.
  - Internet facility in all Departments: The broadband internet connectivity installed in all Departments with WiFi facility helps teachers keep abreast of the latest developments in each subject and facilitates quick and easy communication.
  - LAN facility among Departments and Office: LAN facility among the Departments and Office enables easy transfer of data regarding the academic matters of students required by other Departments.
- **Innovative programmes for the upliftment of the rural students:**
  - Coaching for academically weak students: Remedial coaching classes are conducted for weak students.
  - Enrichment Programme: Academically outstanding students are given special coaching so that they can perform better in their university exams. They are encouraged to take part in quizzes, seminars and invited lectures.
  - NET/JRF Coaching: Coaching classes for NET/JRF examinations are conducted every year during summer holidays.
  - Bank and PSC recruitment coaching: Coaching classes are arranged for students appearing for bank tests and other State and Central service tests.
  - Equal Opportunity Centre: Conducts periodical programmes for the uplift of rural students which include enrichment programme, personality development programme, interview skill development programmes and bridge course in English speaking.
- **Innovative programmes for life orientation:**
  - Full time Counsellor: The service of a full time Counsellor is available on all days for the benefit of stressed out students.
  - Value Education Classes: The College conducts value education classes for all the students.
  - Orientation Seminars for Parents: the College organizes orientation classes for the parents twice a year.
  - Initiation Ceremony: The College conducts an initiation programme for the entire newly admitted student together with his/her parents.
  - Life Orientation Classes: College organizes two-day life orientation programme for all the students.
  - Career conscientisation programmes: One seminar every year is arranged for the teaching and non-teaching staff.
- **Rainwater harvesting programme:** In order to lessen water scarcity in the campus, rainwater-harvesting schemes are used to collect the rainwater from the building roofs.
- **Promoting biodiversity research and publications:**
  - The College promotes biodiversity research and the Department of Zoology has documented various rare species of spiders from different parts of Kerala and published them in various national and international research journals. Biodiversity projects, done by M.Sc. Environmental Science students, include the plant biodiversity of sacred groves and wetlands of Thrissur district. The algal biodiversity of community and temple ponds, rivers, canals, paddy fields and backwater areas in Thrissur district are surveyed and published.



- Researchers and students are engaged in developing various conservation measures that can be implemented for *in situ* or *ex situ* conservation of threatened species of fishes. Some of the research students are involved in describing the effects of various pollutants in biological systems. The College has maintained a repository of natural history, with several rare and exotic specimens of animals and aquariums, in which many of the threatened fish species are kept live to enable their identification by students.
- As part of a research project on the conservation of threatened fish species through induced breeding and reintroduction of laboratory bred indigenous fish species, it is possible to reintroduce thousands of fish fingerlings into their natural habitats. These include some of the endangered fish species.
- **Blood Donation Forum:**  
Under the leadership of NSS and NCC, blood group of the staff and students is detected and students donate blood when need arises.
- **Imago:**  
A group of self-motivated students dedicated to provide help and service for the bed-ridden or aged people and their refuge centres.

### 7.3 Best Practices

**7.3.1 Elaborate on any two best practices, which have contributed to the achievement of the Institutional Objectives and/or contributed to the Quality improvement of the core activities of the college.**

#### **Best Practice -1**

➤ **Title of the Practice: BUILDING BRIDGES ACROSS THE RURAL – URBAN GAP**

- **Goal :-**

- To streamline the social, economic, cultural and academic barriers of the rural and semi urban students with that of the urban students and thus reduce rural urban divide.
- To motivate the students to pursue higher studies and get jobs commensurate with their qualification and interest.
- To equip students with quality and competencies that would prepare them to compete in the global economy and thus reduce the regional imbalance.
- To inculcate moral and ethical values, qualities of communal harmony, understanding and co-operation.
- To equip our students with the requisite character, strength and motivation and to impart the ambition, enthusiasm, dynamism and commitment needed to scale greater heights.

- **The Context**

In order to assist the assimilation of students, who cross over from school to college, institution to institution, and from a predominantly rural backdrop to the main stream semi/urban environment of the College, various healthy and desirable practices are implemented and followed. These practices provide them additional support to overcome the social, economic, cultural and academic barriers. As a result this vibrant and invaluable human resource attains optimal growth potential to participate in the main stream of practical life.

- **The Practice**

Considering the heterogeneity in the academic talents of students, steps are taken to make the teaching learning process more student-centric. Adequate infrastructural facilities fostering the student-centric teaching learning process is made available in all Departments of the College. The Management prioritizes academic excellence in the faculty appointment, and not caste and creed, to meet the needs of the students.



- **Orientation programmes:** Orientation programmes are conducted for the newcomers to acquaint them with the inclusive Vision and Mission of the Institution. The newly appointed faculty are also given orientation during the Principal's briefing at the time of joining.
  - **Class teacher-student interactions:** Through interaction with students, the class teacher can make an analytical study about the curricular, extracurricular strength, weakness, the socio- economic background and learning disabilities of his wards. This develops into a supportive relationship which includes, guidance and advice on personal, professional and academic requirements, on a confidential and customized basis, between the class teacher and students. The teacher becomes a facilitator, so that the teaching learning process becomes student-centric.
  - **Remedial coaching classes for weak students:** The slow learning students undergo remedial coaching and bridge programmes.
  - **Equal Opportunity Centre:** The Equal Opportunity Centre conducts classes for personality development and improvement of communication skills aiming at the upliftment of students from the rural sector.
  - **Seminars, presentation contests and quizzes:** Seminars, presentation contests and quizzes are frequently organized on topics of common interest and relevance, so that students can have updated information on these topics.
  - **IT Vijnan programme:** In order to cope with the rapidly developing scenario of information technology, all first year UG students are given intensive computer education. The College has a unique computer literacy programme - *IT Vijnan*, that offers intensive coaching on basics of computers, MS Office, Internet Browsing, e mailing, etc.
  - **Formulation and use of ICT:** A remarkable paradigm shift has been observed during last four years from the conventional Chalk and Talk to ICT enabled teaching learning process. The infrastructure required for this is provided. The facilities available comprise Computer Labs, language lab, Seminar Halls, smart classrooms, touch screen projectors, LCD projectors, LED TVs, computers and internet connectivity. An Add-on course in web designing is also offered.
- Training Programmes:**
- Soap and detergent making programme is offered in the Department of Chemistry.
  - Training in embroidery, pot painting and jewelry making are offered by the Women's Development Cell for the girl students.
  - Eco-friendly products (eg. pen, file, paper bag, cloth bag and scribbling pad) are made in training programmes offered by Women's Development Cell and NSS.
  - Additional Skill Acquisition Programme (ASAP): The Kerala Government sponsored programme for personality development, communications skills and basic computer knowledge has been started.
  - Coaching classes for entry to State and Central Services: The College offers coaching classes for Bank tests, PSC and other competitive examinations for entry to State and Central Services.
  - Walk with a Scholar Programme: The Kerala Government sponsored programme 'Walk With a Scholar' has been initiated for the benefit of advanced learners.
  - NET/JRF Coaching Classes: The College offers coaching classes for NET/JRF examinations every year during summer holidays.
  - Student Support Programme: The Student Support Programme sponsored by the Kerala Government has been initiated from 2014 onwards. The programme is aimed at giving remedial coaching for weak students.
  - Research orientation programmes: The IQAC conducts an annual research orientation programme for PG students.
  - CCRF for promoting students to join research programmes





- **Inter-disciplinary lecture series:** Interdisciplinary lectures are conducted to create a platform for discussions on events of current importance, especially on recent scientific developments and socially relevant issues.
  - **Add-on courses:** Journalism, Geoinformatics, Web Designing, Yoga Therapy and Physical Fitness, Seed Production and Culturing of Edible and Ornamental Fishes and Communicative English have been started, with an aim to increase the employability of the students through vocational training.
  - **Film Club:** A Film Club is functioning in the College to foster creativity and innovative thinking of students.
  - **Athletic and sports facilities:** 400 x 8 athletic stadium, and facilities for training in football, volleyball, basketball, cricket, handball, kho-kho, kabaddi, ball badminton, shuttle badminton, wrestling, judo and power lifting
  - **Health Club:** In order to promote healthy lifestyle through exercise the College has a Health Club and Fitness Centres.
  - **Value Education Classes:** Weekly value education classes are given for all students, on topics ranging from materialism to spiritualism, in order to accomplish their holistic growth.
- **Evidence of success**
    - The College has produced a large number of academicians, IT professionals, scientists, professors, bankers, chartered accountants, corporate personnel, doctors, engineers, advocates, film stars, musicians, renowned politicians, etc. 37% of the faculty are the former students of the College.
    - A consistently good result in the University examinations with a good number of rank holders and A Plus achievers from rural sector.
    - Production of short films and documentaries by the students, which opens a new avenue for self-actualization, and also employment.
    - Prizes bagged by the students in various competitions (Paper Presentation Contest, Quiz Competition, Essay Writing Competition) held at various levels.
    - Seventy students qualified NET in the last four years and of them secured JRF. Thirteen students passed the State Eligibility Test.
    - One of the alumni passed the Civil Service Exam - IRS Cadre and many have qualified preliminary exam.
    - Five students qualified IPCC and fourteen students passed Institute of Banking Personnel Selection examination.
    - The students are frequent winners and best performers in the University and interuniversity arts competitions.
    - They have excellent track records in University, State and National sports competitions.
    - A large number of students got placement in banking and IT Sectors.
    - Several students got placement in Banking and IT sector through the campus recruitment programmes conducted in the College.
    - Paper presentations by students in various international/national seminars and conferences.
    - Three students won the Best Paper Presenter Award in the presentation contests conducted at national level and five students won prizes at State level.
    - One student won first prize in quiz competition held at the national level, and 8 students bagged prizes at the State level.
  - **Problems encountered and resources required:**
    - Funds generated are insufficient to provide financial assistance to all the needy students.
    - The tight schedule of academic programmes due to the implementation of semester system provides very little extra time.



- Over politicized academic environment

- **Notes:**

The cordial and healthy teacher-student relationship, the periodic test papers, the timely terminal examinations, the admirable library facilities, the maintenance of cent percentage IT literacy, the free internet facility, NET/JRF and Civil Service coaching classes enhance the students' performance. The commitment and community orientation of the faculty inculcate ethical and moral values in the students, moulding them into responsible citizens of tomorrow, oriented towards community service and communal harmony.

- **Best Practice-2**

- **Title of the Practice: ECO-FRIENDLY BIODIVERSITY CAMPUS**

- **Goal :**

- To maintain a cool, green, eco-friendly, less polluted and plastic free campus for the student community and staff of the College.
- To promote *ex situ* and *in situ* conservation of flora and fauna.
- To conserve rare, endangered and threatened plants.
- To maintain live specimens of plants and animals in the campus.
- To give environmental awareness about the different types of plants and animals to the local community.
- To inculcate the message of biodiversity conservation and eco-friendly practices to the students who are the future assets of the nation.

- **The Context :**

The campus is situated on an elevated area in Irinjalakuda namely the Mangadi Hills. The campus is preserved as a biodiversity-rich area with large number of plant species. Steps are taken to make the campus green and to protect rare and threatened plants. The fauna is also protected and safeguarded as the flora in the campus. The availability of opportunities for the protection of natural environment is a pointer of the potential for increased ecological awareness. Management of waste, the different types of pollution and the loss of biodiversity are some of the issues related to the environmental deterioration. The environmental consciousness programmes are arranged for maintaining an eco-friendly biodiversity campus which gives environmental awareness to the students and local people. Over and above these, we are also maintaining a small zoo.

- **The Practice:**

- The 'Bhoomithrasena' Club imparts knowledge about conservation of nature to the younger generation, by organizing nature camps, seminars, talks, discussions and exhibitions. They also organize tours to eco-fragile areas and engage in the conservation of fruit-bearing plants in the campus.
- Biodiversity Club and Department of Botany maintain 20 cents of land(Double of the Government Specification) as *Santhisthal*, where 34 RET plants are planted and maintained.
- Under the 'One Goal One Tree Programme'2014, the Biodiversity Club planted 480 saplings in and around the College.
- Planting of rare and threatened plants by renowned persons, students and staff of the College.
- Periodical visits by the faculty of Department of Botany and documentation of plants in the area. The faculty of Department of Zoology document the fauna periodically.
- A small zoo with a number of animals is maintained in the campus under strict rules and conditions of the Environment and Forest Department of the State.
- Collection of medicinal plants, fruit bearing plants, rare plants from the nearby nurseries
- Plantations of teak, bamboo and *Mahagony* are maintained in the campus to maintain the carbon neutrality.



- *Nakshathravanam* - a joint venture of *Bhoomithrasena* Club and Department of Botany to promote the planting of saplings in the campus
- Wide spread planting and maintenance of flowering plants in the campus
- One acre of the campus called the *Green valley* is maintained by NSS volunteers to create the feel of a thick forest.
- Vegetable garden is maintained by NSS.
- Poly-house farming was started under the auspices of Biodiversity Club and NSS units of the College.
- Full time gardener for watering and greening the campus.
- The NSS units of the College make eco-friendly paper bags and pens to supply in seminars and conferences conducted by the College.
- Maintenance and greening of campus by the NSS volunteers,
- Environment awareness seminars and group discussions have been conducted by the College to develop awareness among students about the need to maintain a green and eco-friendly campus.
- **Evidence of Success**
  - **Biodiversity Haritha Award:** The College secured the prestigious “**Green Campus Award**” instituted by Kerala Biodiversity Board for maintaining an eco-friendly and biodiversity campus during the year 2011-12.
  - **First Haritha Award** instituted by the University of Calicut in 2014.
  - The Biodiversity club of the college won the award for the “**Best Biodiversity Club**” instituted by the Biodiversity Board, Government of Kerala in 2014-15.
  - The fauna documented from the campus includes 102 species of spiders, 12 species of ants, 28 species of birds, 7 species of amphibians, 8 species of mammals and 14 species of reptiles. These species have found a permanent place in this biodiversity rich campus.
  - Two new species of spiders were recorded from the College campus.
  - Four rare species of spiders were recorded for the first time from India from the College campus.
  - 489 species of plants including 480 species of Angiosperms, with one rare ground orchid, 4 Gymnosperms and 5 Pteridophytes have been documented from the campus. Thus, the College is maintaining 33.5 % of natural flora that exists in Thrissur District and 10.3 % of that in Kerala in the campus.
  - There are 197 species of trees and 198 species of medicinal plants in the botanical garden which is a tourist spot for the people around Irinjalakuda town.
  - Favourite location for Malayalam and Tamil film shooting.
  - Enviro-Club of Christ College has been renamed as *Bhoomithrasena* Club as per the instruction of Environment Management Agency, Government of Kerala.
- **Problems encountered and resources required:**
  - Maintenance cost
  - Locating the saplings of RET plants and preserving them from extinction.
  - Maintenance of animals according to the strict rules of Kerala Forest Department and the Government of India.
- **Notes (Optional)**

Christ College, Irinjalakuda has been planting trees and protecting the flora and fauna of Mangadi Hills right from 1956. Over these years, a well nursed and nurtured green blossoming and beautiful botanical garden, conserving a large number of trees and shrubs, and a small zoo with some animals, bear testimony to the commitment of the College to propagate the indispensability of biodiversity and eco-friendly environment to the healthy existence of human life. The students cherish a pleasant nostalgic memory of their green campus even after they leave the College. This tempo makes them maintain a clean and plastic free space in their personal lives and promote afforestation even after their student life.

**Contact Details**

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# *Post-Accreditation Initiatives*





## **POST ACCREDITATION INITIATIVES**

### **Criterion I Curricular Aspects**

- Educational Reforms:
  - Total implementation of Choice Based Credit Semester System in UG level
  - Interdisciplinary Open Course
  - Credit Semester System in PG level
- New Programmes Added:
  - UG: 8 - B. Sc. Psychology, B. Sc. Computer Science, B. A. Malayalam, B. A. English, B. Com. (Additional Batches – 2), BCA, BSW.
  - PG:5 - M. Sc. Mathematics, M. Sc. Botany, M. Sc. Geology, M. Sc. Statistics, M. A. English
  - Research Centres: 4 – Physics, Environmental Science, History, Economics
  - PG Diploma in Sustainable and Green Energy Technologies
  - Add-on Courses: 6 (Communicative English, Web Designing, Yoga Therapy and Physical Fitness, Geo-informatics, Seed Production and Culturing of Edible and Ornamental Fishes, Journalism)
- Syllabus of the PG Diploma programme and Add-on courses were prepared by the faculty of the College
- Applied to start new programmes (from 2015 onwards) : 7
  - U G Level – B. Sc. Catering Service and Hotel Management, B. Lib. Sc., B Sc Botany, BBA, B. A. English and History.
  - MSW, M. Sc. Clinical Psychology.
- Applied for UGC sponsored Programme on Human Rights.
- Applied for UGC Deendayal Upadhyaya Koushal Centre offering B. Voc. Courses.
- The College was recommended by the State Government and the University to grant Autonomy and the visit of the UGC team in this regard is awaited.
- The College has applied for enhancing CPE status and the University has recommended for the same.
- Enrichment programmes: Personality development, Bridge course in communication skills, Student Support Programme, Walk With A Scholar programme, ASAP, *IT Vijnan*, Softskill training.
- Supplemented the University curriculum with enrichment programmes and value education classes.
- Seminar by IQAC on curriculum development sponsored by Higher Education Department, Government of Kerala.
- Faculty as members in Syndicate, Senate of the affiliated University and as Chairman and members of Board of Studies, Academic Council, Question papers setters.
- Course feedback from faculty and passing out students.
- Emphasis on Environmental awareness as a part of the curriculum.
- Off-shoot of the College: Christ College of Physical Education with B P Ed programme.

### **Criterion II Teaching Learning and Evaluation**

- Admission process according to the guidelines of the University, viz. Single window arrangement of the University - CAP or Localized admission process conducted by the individual colleges separately.
- Strict adherence to the reservation policy.



- Additional seats to accommodate applicants from Lakshadweep and sports persons.
- Frequent class teacher-student interactions.
- Special attention to slow learners.
- Class teacher, parent and student meetings to discuss academic progression.
- Fee concession for economically backward students.
- ICT supported teaching: Internet connectivity with WiFi routers in Departments, LAN connectivity among Departments, smart boards, touch screen projectors, LED TVs, LCD projectors, free internet facility.
- New Computer Lab.
- Seventy percentage of the newly appointed teachers are with research degrees.
- Upgradation of teacher qualification ensured: 12 awarded Ph. D, 3 submitted thesis and 15 Doing part time Ph. D.
- Participation in staff development programme:  
Refresher Course: 12 Orientation Programmes: 25 Summer Institutes: 4
- Many awards to faculty:  
National level Awards/Recognitions: 5 State level Awards/Recognitions: 7 University level Awards/Recognitions: 8.
- NAAC sponsored seminar conducted by IQAC on teaching learning process.
- Continuous evaluation process with two internal exams conducted by the centralized Examination Committee.
- Online submission of assignments and Group email IDs are created for students and they are used to forward class notes.
- Overall average percentage of pass: 80.
- Gender sensitization and women empowerment programmes by Women's Development Cell
- Initiatives for environmental awareness and biodiversity protection.

### **Criterion III Research Consultancy and Extension**

- Six research Centres.
- Twenty one Research Guides and sixty one research scholars JRF scholars:
- Number of Ph. D. produced during last four years: 12.
- Publications in international and national peer reviewed journals: 175. Publications in seminar and conference proceedings extra.
- Paper presentations in international national seminars: 85.
- Thirty six projects completed: outlay Rs. 1,22,75,186/-. Eleven projects in progress: outlay Rs. 71,85,700/-.
- Participation of faculty in national and international seminars: 249.
- Innovative practice of the College: CCRF (Christ College Research Fellowship) – Rs. 2,25,000/-.
- FIST grant sponsored by DST – Rs. 80,00,000/-.
- Project rooms newly constructed: 2000 sq. ft.
- Work station in Department Physics.
- Science labs with modern equipment; UGC Grant - Rs. 30,00,000/-.
- Seminar of Intellectual Property by Rights conducted by IQAC.
- Number of seminars organized: International–2, National–8, State level –11.
- Research orientation talks organized by IQAC for the benefit of PG students.
- Self funded invited talks and enrichment programmes: 83.





- Awarded international internship (at University of Roehampton, UK) to one of the faculty sponsored under the FLAIR scheme of Government of Kerala for quality enhancement.
- Initiated Collaborative research works by the faculty.
- Departmental extension activities with special appreciation of that of Department of Social Work.
- Extension activities initiated by NSS, NCC, CSA and Imago:
  - Involvement in pain and palliative care activities.
  - Training programmes for mentally and physically challenged children.
  - Blood detection and organ donation campaigns.
  - More than fifty blood donations.
  - One-day and seven-day camps organized by NSS with slogan Go Green, Be Clean.
  - Conference materials, screen printed files, folders, pens, cloth bags from used articles.
  - Initiatives to maintain eco-friendly campus.
  - Visits to old age homes.
  - Awareness Rally and Street Play depicting the Atrocities against Children and Women.
  - Assistance to the Police Department to maintain law and order in occasions of VIP visits.
  - *Santhwanasparsam* - free noon-meals programme of patients of Taluk Hospital.
  - Value education and life orientation classes for all students of the College.
  - Helping hand to establishments where the disabled and immobile individuals are sheltered by taking care of matters related to their personal hygiene.
  - Food and clothing to the helpless and homeless in and around Irinjalakuda.
  - Initiatives of Biodiversity Club, *Bhoomithrasena* Club to propagate environmental awareness.
- Consultancy services initiated especially by the Science Departments.
- Consultancy with Caborum Universal Limited (Department of Chemistry).

#### **Criterion IV Infrastructure and Learning Resources**

- Physical Infrastructure
  - Newly Constructed class rooms and faculty rooms: 3600Sq. M.
  - New laboratories opened: 7 (Botany Lab, Psychology Lab, Computer Science Lab -2, Geology Lab, Environmental Science Lab, GIS Lab).
  - Toilets and rest rooms in various blocks constructed.
  - New canteen started.
  - Renovated of Gents' Hostel Building and constructed new toilets.
  - Constructed Ladies' Hostel annex: newly constructed area: 12000 sq. ft.
  - Built up UGC sponsored Day Care Centre.
  - Health Club – near the New Block and in Gents' Hostel opened.
  - Constructed of outdoor gallery in football ground.
  - Pole Vault, Jumping Pit.
  - Renovation of 8 x 400 meter Athletic Stadium.
  - Synthetic long jump and triple jump pit.
  - Rainwater harvesting system and solar panel.
  - FIST supported e learning rooms.
  - Installation of CCTV camera for security purposes.
  - Vehicle for ladies hostel to attend emergency hospital cases.
- Library
  - DELNET and INFLIBNET access.
  - Bar coding completed and fully computerized transactions.



- Intent service in the Library.
- CCTV camera in the library for security purposes
- New text and subject books: 5300, Reference Books: 250, Journals and Periodicals: 500

### **Criterion V Student Support and Progression**

- Various scholarships like INSPIRE, One Girl Child and Kerala State Higher Education sponsored.
- 55- 60% of students benefit from various State and Central Scholarships.
- Fee concessions for students in self-financing programmes whose annual family income is less than Rs. 30000/- .
- Scholarships and free-ships provided by the College.
- Free noon-meals for poor students.
- Admission for outstanding sports person to additional seats without fees.
- Concession of fee upto 70% for sports persons.
- Free food for athletics and sports persons.
- Extra fund for sports promotion from Management fund.
- Support for students for excelling in fine arts programmes.
- Excellent pass percentage, (75–80%), University Ranks and University top positions.
- Consistent progression rate for higher studies.
- Negligible drop-out ratio.
- Reservation of management quota seats for good performers in fine arts programmes.
- Frequent winners in university zonal competitions.
- Good number of national and inter university winners and participants.
- Personality development, computer literacy and communication skill classes by Equal Opportunity Centre.
- Softskill training and career orientation by Career Guidance and Placement Cell.
- Repeated campus recruitment drives by companies from IT and Banking sectors.
- Consistent increase in number of placements.
- Coaching classes NET/JRF examinations.
- Activities organized by various Clubs for the holistic development of students.

### **Criterion VI Governance, Leadership and Management**

- Development through team work under the leadership of IQAC.
- IQAC representation in College Council.
- Reconstituted IQAC including members from student Community, Industry and OSA.
- Active involvement of the faculty in various curricular, co-curricular committees and extracurricular Clubs.
- Planning and evaluation of various projects through periodical meetings of College Councils, staff meetings and IQAC.
- Periodical assessment of the facilities provided and timely modifications if needed.
- Effective coordination and dedicated involvement of the faculty in organizing programmes by different Clubs.
- Convergence of all programmes with an aim of integral growth of students.
- Collective effort for elevating the College to autonomous status.

### **Criterion VII Innovations and Best Practices**

- Collective effort to bring up the rural students to the stature of urban students.
- Bridge programmes for the upliftment of rural students.



- Seminars, debates, presentation contests to create opportunity to improve the talents of students.
- Programmes to improve the employment quotient of rural students.
- Activities that nurture creativity and critical thinking.
- Service of a Counsellor for the stress management of students.
- Special cell for addressing the grievances of underprivileged students.
- Efficient anti-ragging committee.
- Health Club and Fitness Centre.
- Thrust for environmental awareness and biodiversity protection.
- *Santhisthal* - A plantation of RET plants.
- One Goal One Tree programme in connection with World Cup football tournament.
- Energy audit, water audit, waste audit and vegetation /ecological audit of the campus.
- Celebration of special upliftment of National Importance.
- Initiatives for energy conservation.
- Construction of Check-Dams for round water recharging.
- Efforts for Carbon Neutrality
- Plantation of saplings in the campus
- Initiatives for the effective management of hazardous wastes and e-wastes.
- Many appreciations and awards for the efforts taken for eco-friendly campaign and biodiversity protection.





# *Evaluative Reports of Departments*





## Evaluative Report - Department of Zoology

1	Name of the department	<b>Zoology</b>		
2	Year of Establishment	1957		
3	Names of Programmes /Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.)	UG – B.Sc. Zoology		
		PG – M.Sc. Zoology - Fishery Biology as specialization		
		Research Programme - Ph.D. Zoology Areas of research- Applied Biochemistry, Biotechnology, Taxonomy, Biodiversity, Phytoremediation, Immunology.		
4	Names of Interdisciplinary courses and departments involved	Name of Course	Departments Involved	
		Open Programme: Human health and Sex education	All Departments	
		Add on Course: Ornamental fish culture	All Departments	
		Any other	Nil	
5	Annual/ Semester/choice based credit system(programme wise)	Choice Based Credit & Semester System (CCSS) for UG & CSS (Credit & Semester System ) for PG		
6	Participation of the department in the courses offered by other departments	Guidance for dissertations and sharing of some of the laboratory facilities, with Environmental Science department.		
7	Courses in collaboration with other universities, industries, foreign institutions, etc.		Nil	
8	Details of courses/programmes discontinued (if any) with reasons		Nil	
9	Number of Teaching posts		Sanctioned	Filled
		Professors	Nil	Nil
		Associate Professors	4	4
		Assistant Professors	3	2
	Guest Lectures	Nil	1 (by management)	

10 Faculty Profile					
Name	Qualification	Designation	Specialization	Experience in years	Ph.D. Students guided (last 4 years)
Dr. Pius K. Jacob	M.Sc., Ph.D.	Associate Professor	Reproductive Biology	26	Nil
Dr. C.O. Joshi	M.Sc., M.Phil., Ph.D.	Associate Professor	Fish Biology	24	Nil
Dr. V.F. Paul	M.Sc., Ph.D.	Associate Professor	Developmental Biology	22	Nil
Dr. Balu T. Kuzhivelil	M.Sc., Ph.D.	Associate Professor	Physiology, Biochemistry & Environmental Biotechnology	20	3 (ongoing) 2 (Co-guidance ongoing)
Dr. A.V. Sudhikumar	M.Sc., Ph.D.	Assistant Professor	Arachnology	04	3 (ongoing)



Dr. Leyon Varghese	M.Sc., Ph.D.	Assistant Professor	Immunology	03	Nil (Recently recognized as Research guide)
Dr. Moncey Vincent	M.Sc., Ph.D.	Guest Lecturer	Fish Behaviour and Taxonomy	1	Nil
Dr. John Thomas K. (Rtd.2010)	M.Sc., Ph.D.	Associate Professor	Behavioural ecology	21	4 Awarded; 1 ongoing
Dr. K.V. Baby (Rtd. on 2014)	M.Sc., Ph.D.	Associate Professor	Aquatic toxicology	22	Nil
Dr. Binu Antony (Relieved from College on 21/11/2011)	M.Sc., Ph.D.	Assistant Professor	Molecular Biology and Biotechnology	1	Nil
11	List of Senior Visiting Faculty		Nil		

12	Percentage of lectures delivered and practical classes engaged by guest faculty (Programme wise)	Year	Core	Complementary	PG
		2010-11	Nil	Nil	Nil
		2011-12	Nil	Nil	Nil
		2012-13	Nil	Nil	Nil
		2013-14	Nil	Nil	Nil
13	Student Teacher Ratio (programme wise)	Year	Core	Complementary	PG
		2013-14	10: 1	Nil	4: 1
14	Number of academic support staff (technical) and administrative staff			Sanctioned	Filled
		Academic support Staff		2	2
		Administrative Staff		Nil	Nil

15	<b>Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ MPhil/PG</b>	
	Name	Qualification
	Dr. Pius K. Jacob	M.Sc., Ph.D.
	Dr. C.O. Joshi	M.Sc., M.Phil., Ph.D.
	Dr. V. F. Paul	M.Sc., Ph.D.
	Dr. Balu T. Kuzhivelil	M.Sc., Ph.D.
	Dr. A.V. Sudhikumar	M.Sc., Ph.D.
	Dr. Leyon Varghese	M.Sc., Ph.D.
	Dr. Moncey Vincent	M.Sc., Ph.D.

16	Number of faculty with ongoing projects from a) National b) International funding agencies and grants received:	Name of Principal Investigator	Details of Grant	
		Dr. Balu T. Kuzhivelil	Funding Agency	Grant received.
			MOEF	8 Lakhs
		Dr. A.V. Sudhikumar	DST	10.5 Lakhs
KSCSTE	5 Lakhs			
	Dr. Leyon Varghese	UGC	5 Lakhs	
17	Departmental projects funded by DST-FIST; UGC, DBT, ICSSR,	Department of Zoology	Details of Grant	
			FIST	21Lakhs





	etc. and total grants received:		
18	Research Centre/facility recognised by the University	University of Calicut	

19 Publications Details												
A - Publication per faculty (B+D+G); B - Number of papers published in peer reviewed journals (national / international) by faculty; C - Number of publications listed in International Database/Citation Index; D - Books with ISBN/ISSN or Chapter in Books; E - Books Edited; F – Sessions Chaired / Resource Person; G - Publications in the proceedings of Seminars/Conferences; H- SNIP; I – SJR; J- Impact Factor; K-h index												
Name of faculty	A	B	C	D	E	F	G	H	I	J	K	
Dr. Pius K. Jacob	1	1	-	-	-	1	-	-	-	-	-	
Dr. Joshi C.O.	1	1	-	-	-	-	-	-	-	-	-	
Dr. Balu T. Kuzhivelil	4	-	8	1	-	2	3	-	-	-	2	
Dr. Sudhikumar A.V.	15	2	30	5	-	2	8	-	-	-	3	
Dr. Leyon Varghese	4	2	11	-	-	-	2	-	-	-	4	
Dr. John Thomas K.	15	10	-	-	-	-	5	-	-	-	-	
Dr. K.V. Baby	-	-	-	-	-	1	-	-	-	-	-	
Dr. Moncey Vincent	4	4	-	-	-	-	-	-	-	-	-	
Dr. Binu Antony	2	2	-	-	-	-	-	-	-	-	-	
<b>Total</b>	<b>46</b>	<b>22</b>	<b>49</b>	<b>6</b>	<b>-</b>	<b>6</b>	<b>18</b>	<b>-</b>	<b>--</b>	<b>-</b>	<b>-</b>	

Paper Presentation by the teachers				
Name of faculty	International	National	Regional/State	Total
Dr. Sudhikumar A. V.	2	-	-	2
<b>Total</b>	<b>2</b>	<b>-</b>	<b>-</b>	<b>2</b>

Publications/Presentations By Students				
Name	International	National	Regional/State	Total
Publications	4	6	-	10
Presentations	1	13	1	15
<b>Total</b>	<b>5</b>	<b>19</b>	<b>1</b>	<b>25</b>

20 Area of Consultancy and income generated	
Consultancy	Income generated
Taxonomic identification of spiders from various agro-ecosystems.	Rs. 6000/-

21 Faculty as members in National Committees, International Committees etc		
Faculty as members in	Name of the faculty	Name of the committee
National Committees	Dr. Pius K. Jacob Dr. Joshi C.O. Dr. Balu T. Kuzhivelil	<ul style="list-style-type: none"> <li>Marine Biological Association of India</li> <li>Inland Fishery Society of India</li> <li>Society for Fishery Technologists, India.</li> </ul>
International Committees	Dr. Sudhikumar A.V.	<ul style="list-style-type: none"> <li>International Society of Arachnology</li> <li>Encyclopedia of Life</li> </ul>
Editorial Boards	Dr. Sudhikumar A.V.	Journal of Threatened Taxa

22 Student Projects	
Percentage of students who have done in-house projects including inter departmental /	90



programme	
Percentage of students placed for projects in organizations outside the institution i.e. in Research laboratories/Industry/other agencies.	10

23	<b>Awards Recognitions received by faculty and students</b>		
	Name	Student/ Faculty	Awards/ Recognitions received
	Dr. Sudhikumar A.V.	Faculty	Young Scientist Research Project Award from SERB-DST
	Dr. Leyon Varghese	Faculty	FLAIR- International Internship
	Ms. Geethika K.	Student	“Best Researcher Award” in <i>National Conference on Modern Trends in Zoological Research</i> .
	Ms. Drisya Mohan O.M.	Student	Best M.Sc. Project Award in Millennium Zoology
	Ms. Silpa Prabha	Student	M.Sc. 3 <sup>rd</sup> Position 2014, University of Calicut
	Ms. Jimsy Johnson	Student	21 <sup>st</sup> Rank, JRF 2014
	Ms. Reshma K.M.	Student	44 <sup>th</sup> Rank, JRF 2014

24	<b>List of eminent academicians and scientists/ visitors to the department</b>	
	Name	Designation
	Dr. Francis Xavier	Prof. and Head, Cattle Breeding Farm, Kerala Agricultural University
	Mr. G. Sankar	Business executive, ‘Cliniminds’ Kerala.
	Dr. A.A. Mohammed Hatha	Associate Professor, School of Marine Sciences, CUSAT
	Dr. N.G.K. Pillai	Emeritus Scientist and former director, Central Marine Fisheries Research Institute (CMFRI), Ernakulam
	Dr. Jaison E.A.	Senior Scientist, Kerala Forest Research Institute, Peechi
	Dr. Dileep Vasudevan,	Research Fellow, Novartis, Singapore; formerly at National University of Singapore.
	Dr. T.V. Sankar	Head, Quality Assurance and Management Division, Central Institute of Fisheries Technology (CIFT), Kochi
	Dr. S. Sankar	Senior Scientist (Retd.), Kerala Forest Research Institute (KFRI), Peechi
	Dr. Jose Kallarackal	C. S. I. R. Emeritus Scientist, KFRI, Peechi, Kerala
	Dr. V.A. Vijayan	Prof. and Chairman, Dept. of Zoology Mysore University, Mysore
	Dr. T.S. Rajeev	Project leader, Elephant studies division, Kerala Veterinary and Animal Sciences University, Mannuthy.
	Dr. T.B. Suma	Scientist B, Forest Genetics and Biotechnology Division, KFRI, Peechi.
	Dr. G. Archunan	Coordinator, Centre for Pheromone Technology, Professor and Head, Department of Animal Sciences, Bharathidasan University, Tiruchirappalli

25	<b>Seminar/Conference/ Workshops organized and the source of funding</b>			
	Seminar/Conference/ Workshop	International, National/ others	Year	Source of Funding
	Workshop for high School teachers of Irinjalakuda sub-district	Others	2010	-
	Workshop for higher secondary	Others	2012	Zoology Association of



School teachers of Thrissur district			higher secondary School teachers
Workshop for higher secondary School teachers of Thrissur district	Others	2013	Zoology Association of higher secondary School teachers

26 Student Profile programme/course wise						
Year	Name of the Course/programme	Applications Received	Selected	Enrolled		Pass %
				M	F	
2009-10	UG	368	36	10	24	87
	PG	152	12	0	12	100
2010-11	UG	346	36	8	26	66
	PG	191	12	1	11	100
2011-12	UG	362	36	8	26	76
	PG	CAP	12	0	12	100
2012-13	UG	342	36	10	24	62
	PG	203	12	0	12	100
2013-14	UG	CAP	36	8	26	74
	PG	186	12	0	12	100

27 Diversity of Students				
Year	Name of the Course/programme	% of students from the state	% of students from other states	% of students from abroad
2009-10	UG	100	0	0
	PG	90	10	0
2010-11	UG	95	5	0
	PG	100	0	0
2011-12	UG	95	5	0
	PG	100	0	0
2012-13	UG	95	5	0
	PG	100	0	0
2013-14	UG	95	5	0
	PG	100	0	0

28 How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defence services, etc.		
Year	Examinations passed	No. of students
2009	NET	3
2010	JRF	2
2010	NET	1
2011	NET	2
2012	RGNF	1
	SRF	1
2014	JRF	2
	GATE	1
	KSCSTE	1



29	Student Progression				
	No. of students				
Student Progression	2009-10	2010-11	2011-12	2012-13	2013-14
UG to PG	5	15	6	10	14
PG to M Phil.	Nil	Nil	Nil	Nil	Nil
PG to Ph.D.	Nil	Nil	Nil	1	1
• Employed Campus selection	Nil	Nil	Nil	2	Nil
• Other than campus recruitment	2	2	2	3	3

30	Details of Infrastructural facilities	
a) Library	3146 books and 11 Journals in College Library	
b) Internet facilities for staff and students	Yes, for staff, research students and PG students	
c) Class room with ICT facility	3 classrooms with LED screens, 3 LCD projectors.	
d) Laboratories	3 Research laboratories – Applied biochemistry and biotechnology, Immunology and toxicology lab, Animal taxonomy and ecology lab. M.Sc. labs – 2 and B.Sc. lab - 1	
e) Other Facilities	<ul style="list-style-type: none"> <li>• Animal house - To house experimental animals</li> <li>• Concrete tanks, Large and small aquaria - For fish hatching and rearing</li> <li>• Museum - A good collection of rare specimens, fossils, skeleton etc.</li> </ul>	

31	Number of students receiving financial assistance from College, University, Government or other agencies			
Year	College	University	Government	Others
	No. of Students	No. of Students	No. of Students	No. of Students
2010-11	Nil	Nil	Nil	1
2011-12	Nil	Nil	Nil	1
2012-13	Nil	Nil	1	Nil
2013-14	Nil	Nil	Nil	2

32	Details on student enrichment programmes (special lectures / workshops / seminar) with external experts		
Year	Programme	Resource person	Topic delivered
2010-11	Invited talk	Dr. Francis Xavier, Prof. and Head, Cattle Breeding Farm, Kerala Agricultural University	Ecological damage and Fauna- Kerala scenario
	Invited talk	Mr. G. Sankar, Business executive, 'Cliniminds' Kerala.	Opportunities in Clinical data management.
	Endowment seminar	Dr. A.A. Mohammed Hatha, Associate Professor, School of Marine Sciences, CUSAT	An overview of the Arctic Expedition.
	Endowment seminar	Dr. N.G.K. Pillai, Emeritus Scientist and former director, CMFRI	Marine Fisheries
2011-12	Invited talk	Dr. Jaison E.A., Senior Scientist, Kerala Forest Research Institute, Peechi	<i>Human Wildlife Conflict in South Western Ghats.</i>
	Invited talk	Dr. Dileep Vasudevan, Research Fellow,	Protein Crystallography



2012-13		Novartis, Singapore; formerly at National University of Singapore	
	Endowment seminar	Dr. T.V. Sankar, Head, Quality Assurance and Management Division, Central Institute of Fisheries Technology (CIFT), Kochi	Food Safety and its Importance in General Well-being
	Endowment seminar	Dr. S. Sankar, Senior Scientist (Retd.), Kerala Forest Research Institute (KFRI), Peechi	Food from the Forest-Edible Biodiversity
2013-14	Invited talk	Dr. Jose Kallarackal, C.S.I.R. Emeritus Scientist, KFRI, Peechi, Kerala	The roots of environmental problems in Kerala
	Invited talk	Dr. V.A. Vijayan, Prof. and Chairman, Dept. of Zoology Mysore University, Mysore	Drosophila Genetics
	Endowment seminar	Dr. T.S. Rajeev, Project leader, Elephant studies division, Kerala Veterinary and Animal Sciences University, Mannuthy	Biology of Elephants
	Endowment seminar	Dr. T.B. Suma, Scientist B, Forest Genetics and Biotechnology Division, KFRI, Peechi	DNA bar coding in Forensic Research
	Training	SCMS, Ernakulam	SCM Hub Extreme Personal Success
2014-15	Invited talk	Dr. C. Vimala, Associate Professor, SN College, Nattika, Kerala	Climate change
	Invited talk	Dr. G. Archunan, Coordinator, Centre for Pheromone Technology, Professor and Head, Dept. of Animal Sciences, Bharathidasan University, Tiruchirappalli	Current trends in Pheromone Technology

<b>33</b>	<b>Teaching methods adopted to improve student learning</b>
<ul style="list-style-type: none"> <li>• Promoting Computer assisted learning.</li> <li>• Use of Interactive CDs.</li> <li>• Presentation of Downloaded select video lectures.</li> <li>• Training to make power point presentations.</li> <li>• Encouraging use of E-books.</li> </ul>	

<b>34</b>	<b>Participation in Institutional Social Responsibility (ISR) and Extension activities</b>
<p><b>Dr. Pius K. Jacob</b> Coordinator of Zoology Alumni Association, Science club, UGC/CSIR NET Coaching programme.</p>	
<p><b>Dr. Joshi C.O.</b></p> <ul style="list-style-type: none"> <li>• Coordinator, <i>Bhoomithrasena</i>. 2009-2010.</li> <li>• Vice chairman, standing committee on Education Adat Grama Panchayath.</li> <li>• Member, Technical support group, Kerala Biodiversity Board, Trichur.</li> <li>• Member, Technical support group of Puzhakkal Block Panchayath.</li> </ul>	
<p><b>Dr. V.F. Paul</b> Coordinator, College Hand Book.</p>	



<p><b>Dr. K. V. Baby (Retired.)</b></p> <ul style="list-style-type: none"> <li>• IQAC Coordinator, 2007-2012</li> </ul>
<p><b>Dr. Balu T. Kuzhivelil</b></p> <ul style="list-style-type: none"> <li>• Coordinator, Research Consultative Committee</li> <li>• Coordinator, DST-FIST and SARD.</li> <li>• Member, IQAC.</li> </ul>
<p><b>Dr. Sudhikumar A.V.</b></p> <ul style="list-style-type: none"> <li>• Coordinator, UGC/CSIR NET Coaching programme 2010-2011, and <i>Bhoomithrasena</i> 2010 onwards</li> <li>• Science project guidance to students of high schools, colleges, Scholars of University of Calicut, M.G. University and Kerala Forest Research Institute.</li> <li>• Awareness programme on biodiversity to school students.</li> </ul>
<p><b>Dr. Leyon Varghese</b></p> <ul style="list-style-type: none"> <li>• Executive committee member of College Alumni Association, and Parent Teacher Association.</li> </ul>

35		SWOC analysis of the department and future plans
<b>Strength</b>	<ul style="list-style-type: none"> <li>• All the faculty members are with research degree (Ph.D.) from various universities.</li> <li>• Two of the faculty are trained in international research laboratories.</li> <li>• Committed teachers. Two of the former faculty got prestigious Professor M.M. Ghani award for the 'best teacher,' awarded by University of Calicut.</li> <li>• Eighteen research students were awarded with Ph.D. degree.</li> <li>• Three of the faculty members are recognized research guides of the University of Calicut. Three research laboratories have been established.</li> <li>• At present eight research students are pursuing for Ph.D. in our department.</li> <li>• All the faculty have research publications.</li> <li>• Three faculty members have 'h' index (2, 3 and 4).</li> <li>• Department has attracted Rs. 97,68,651/-. (97.69 lakhs) as external funding for research.</li> <li>• Sound infrastructural facilities, through UGC funding and DST-FIST programme. Applied for SARD programme of KSCSTE.</li> <li>• Theory classes are in ICT mode.</li> <li>• Three genes from the fish are sequenced in our laboratory and deposited in Gene Bank of NCBI. One more gene has been sequenced and submission awaits approval.</li> <li>• The faculty serve strengthen the academic scenario, as members of the various bodies of the University like the Syndicate, academic council, research council, different boards of studies etc.</li> <li>• Strong alumni serving as academicians, scientists, teachers and administrators.</li> </ul>	
<b>Weakness</b>	<ul style="list-style-type: none"> <li>• Only a few M.Sc. students have qualified NET/JRF in the recent past.</li> <li>• Only three of the faculty have got guideship.</li> <li>• In recent years the pass percentage in B.Sc. programme has declined.</li> <li>• Could not organize national level seminar/workshop in the recent past.</li> <li>• Not many students are getting placement.</li> <li>• Poor tracking mechanism for assessment of placements of past pupils.</li> </ul>	
<b>Opportunity</b>	<ul style="list-style-type: none"> <li>• Research in animal sciences is very active, worldwide.</li> </ul>	



	<ul style="list-style-type: none"><li>• Students can be trained at Ph.D. level in the frontier areas and brought to the international level.</li><li>• Recent additions/ improvement in lab facilities can attract better talents into research</li><li>• The vibrancy of research in the area of animal science can be very well utilized in teaching at B.Sc. and M.Sc. level.</li></ul>
<b>Challenges</b>	<ul style="list-style-type: none"><li>• Some of our intake in B.Sc. and M.Sc. programmes is not always up to the expected standard. Training them and bringing them to the National standard is a challenge for us. In our M.Sc. programme, most often, only girls get admission as they secure higher marks in their qualifying degree. However, most of them go for B.Ed., and settle into family life.</li><li>• Inspiring them to the vast horizon of higher education and research is a challenge.</li></ul>
<b>Future plans</b>	<ul style="list-style-type: none"><li>• To strengthen our teaching and research.</li><li>• To attract more external funding for research.</li><li>• To sign MOU with reputed research institutions.</li><li>• To strengthen infrastructure for the betterment of teaching-learning process.</li><li>• To establish a virtual laboratory.</li><li>• To submit proposal for SAP programme of UGC.</li><li>• To conduct various national level programmes</li></ul>



## Evaluative Report - Department of Chemistry

1	Name of the department	Chemistry		
2	Year of Establishment	1957		
3	Names of Programmes /Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.)	UG – B.Sc. Chemistry (Core) B.Sc. Zoology (complementary) B.Sc. Geology (complementary) B.Sc. Physics (complementary)		
		PG - M.Sc. Chemistry M.Sc. Environmental Sciences (Interdisciplinary)		
		Research Programme – Ph.D.		
4	Names of Interdisciplinary courses and departments involved	Name of Course	Departments Involved	
		Open Programme: Chemistry in Everyday Life Environmental Chemistry	All Departments Chemistry Department	
		Add on Course:	Nil	
		PG Diploma – Green and Sustainable Energy Technologies	Physics and Chemistry Departments	
5	Annual/ Semester/choice based credit system(programme wise)	Choice Based Credit & Semester System (CCSS) for UG & PG		
6	Participation of the department in the courses offered by other departments	B.Sc. Zoology (complementary) B.Sc. Geology (complementary) B.Sc. Physics (complementary) M.Sc. Environmental Sciences PG Diploma - Green and Sustainable Energy Technologies		
7	Courses in collaboration with other universities, industries, foreign institutions, etc.	Ph.D. Chemistry – Bharathiyar University		
8	Details of courses/programmes discontinued (if any) with reasons		Nil	
9	Number of Teaching posts		Sanctioned	Filled
		Professors	Nil	Nil
		Associate Professors	4	4
		Assistant Professors	7	7
		Guest Lectures	Nil	Nil

10	<b>Faculty Profile</b>					
	Name	Qualification	Designation	Specialization	Experience in years	Ph.D. Students guided (last 4 years)
	Mr. Babu Anthony Menachery	M.Sc., M.Phil.	Associate Professor, HOD	Inorganic Chemistry	33	Nil
	Dr. Mathew Paul Ukken	M.Sc., Ph.D.	Associate Professor	Inorganic Chemistry	27	5 (1 Ph.D. awarded)
	Dr. V.D. John	M.Sc., Ph.D.	Associate Professor	Inorganic Chemistry	29	7
	Dr. V.T. Joy	M.Sc., Ph.D.	Assistant	Physical	15	4





		Professor	Chemistry		
Rev. Dr. T.M. Jose	M.Sc., Ph.D.	Associate Professor & Principal	Theoretical Chemistry	18	Nil
Dr. Rani Varghese	M.Sc., M.Phil., Ph.D.	Assistant Professor	Physical Chemistry	4	Nil
Dr. Digna Varghese	M.Sc., M.Phil., Ph.D.	Assistant Professor	Inorganic Chemistry	4	Nil
Dr. Robinson P. Ponminiessary	M.Sc., Ph.D.	Assistant Professor	Inorganic Chemistry	3	Nil
Dr. Titto Varughese	M.Sc., Ph.D.	Assistant Professor	Organic Chemistry	2	Nil
Mr. Arun S.	M.Sc., M.Phil.	Assistant Professor	Organic Chemistry	1	Nil
Dr. Tom Cherian	M.Sc., Ph.D.	Assistant Professor	Analytical Chemistry	2	Nil
11	List of Senior Visiting Faculty			Nil	

12	Percentage of lectures delivered and practical classes engaged by guest faculty (Programme wise)	Year	Core	Complementary	PG
		2010-11	6	8	2
		2011-12	Nil	Nil	Nil
		2012-13	6	2	2
13	Student Teacher Ratio (programme wise)	Year	Core	Complementary	PG
		2013-14	9:1	30:1	4:1
14	Number of academic support staff (technical) and administrative staff			Sanctioned	Filled
		Academic support Staff		4	3
		Administrative Staff		1	1

15	<b>Qualifications of teaching faculty with D.Sc./ D.Litt/ Ph.D./ M.Phil./PG</b>	
	Name	Qualification
	Mr. Babu Anthony Menachery	M.Sc., M.Phil.
	Dr. Mathew Paul Ukken	M.Sc., Ph.D.
	Dr. V.D. John	M.Sc., Ph.D.
	Dr. V.T. Joy	M.Sc., Ph.D.
	Rev. Dr. T.M. Jose	M.Sc., Ph.D.
	Dr. Rani Varghese	M.Sc., M.Phil., Ph.D.
	Dr. Digna Varghese	M.Sc., M.Phil., Ph.D.
	Dr. Robinson P. Ponminiessary	M.Sc., Ph.D.
	Dr. Titto Varughese	M.Sc., Ph.D.
	Mr. Arun S.	M.Sc., M.Phil.
	Dr. Tom Cherian	M.Sc., Ph.D.



16	Number of faculty with ongoing projects from a) National b) International funding agencies and grants received:	Name of Principal Investigator	Details of Grant	
		Dr. Mathew Paul Ukken	Funding Agency	Grant received
		Dr. V.D. John	UGC	1.0 Lakhs
		Dr. V.T. Joy	Carborundum	5.0 Lakhs
		Dr. Titto Varughese	UGC	2.0 Lakhs
17	Departmental projects funded by DST-FIST; UGC, DBT, ICSSR, etc. and total grants received:	FIST	Details of Grant	
		UGC	Funding Agency	Grant Received
		KSCSTE (10000/- for seminar)	FIST	22 Lakhs
			UGC	15 Lakhs
18	Research Centre/facility recognised by the University	Calicut University, Bharatiyar University, Karpagam University		

19	<b>Publications Details</b>										
A - Publication per faculty (B+C+D+G); B - Number of papers published in peer reviewed journals (national / international) by faculty; C - Number of publications listed in International Database/Citation Index; D - Books with ISBN/ISSN or Chapter in Books; E - Books Edited; F – Sessions Chaired/Resource Person; G - Publications in the proceedings of Seminars/Conferences; H- SNIP; I – SJR; J- Impact Factor; K-h index											
Name of faculty	A	B	C	D	E	F	G	H	I	J	K
Dr. Mathew Paul Ukken	8	5	-	-	-	-	3	-	-	1.1	1
Dr. V.D. John	4	3	-	-	-	3	1	-	-	1.1	5
Dr. V.T. Joy	-	-	-	-	-	-	-	-	-	-	5
Dr. Digna Varghese	6	5	-	-	-	-	1	-	-	1.7	4
Dr. Robinson P. Ponminiessary	7	7	-	-	-	-	-	-	-	2.5	7
Dr. Titto Varughese	6	6	-	-	-	-	-	-	-	2.1	4
Mr. Arun S.	3	3	-	-	-	-	-	-	-	2.2	2
Dr. Tom Cherian	2	2	-	-	1	-	-	-	-	1.6	4
<b>Total</b>	<b>36</b>	<b>31</b>	<b>-</b>	<b>-</b>	<b>1</b>	<b>3</b>	<b>5</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>

<b>Paper Presentation by the teachers</b>			
Name of faculty	International	National	Total
Dr. V.T. Joy	-	1	1
Dr. Titto Varughese	-	2	2
Dr. Tom Cherian	-	2	2
<b>Total</b>	<b>-</b>	<b>5</b>	<b>5</b>
<b>Presentations by Students – National Seminars</b>			4

20	<b>Area of Consultancy and income generated</b>	
Consultancy		Income generated
<b>Dr. Mathew Paul Ukken</b> <ul style="list-style-type: none"> <li>Anaerobic wastewater treatment system. Global Labs and Consultants (A division of Periyar Biotech Pvt. Ltd.</li> </ul> <b>Dr. V.T. Joy</b> <ul style="list-style-type: none"> <li>Removal of iron impurities from commercial silicon carbide and alumina by a 'green' process for Carborundum Universal Limited, Kochi.</li> </ul>		5.0 Lakhs



<ul style="list-style-type: none"> <li>A method for the safe disposal of isopropyl chloride for Carborundum Universal Limited, Kochi.</li> </ul> <p><b>Dr. Titto Varughese</b></p> <ul style="list-style-type: none"> <li>Chemistry of isolated products, structure elucidation. Centre for medicinal plants research.</li> </ul>	
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21	<b>Faculty as members in National Committees, International Committees etc</b>		
	Faculty as members in	Name of the faculty	Name of the committee
	National Committees	Nil	Nil
	International Committees	Dr. Titto Varughese	Korean Chemical Society
	Editorial Boards	Nil	Nil
	Any other	Nil	Nil

22	<b>Student Projects</b>	
	Percentage of students who have done in-house projects including inter departmental/programme	75
	Percentage of students placed for projects in organizations outside the institution i.e. in Research laboratories/Industry/other agencies	25

23	<b>Awards Recognitions received by faculty and students</b>		
	Name	Faculty	Awards/ Recognitions received
	Dr. V.D. John	Faculty	Prof. M.M. Ghani award for the best college teacher for the year 2010-11 instituted by University of Calicut.

24	<b>List of eminent academicians and scientists/ visitors to the department</b>	
	Name	Designation
	Dr. S. Chandrasekharan	Honorary Professor, IISc, Bangalore
	Dr. B. Narayana	Registrar, Mangalore University
	Dr. T.K. Damodaran	Scientist, KFRI, Thrissur
	Dr. P. Muhammad Shafi	Rtd. HOD, Dept. of Chemistry, Calicut University.
	Dr. K.V. Radhakrishnan	Scientist, NIIST
	Dr. George Thomas	Professor and Dean, IISER
	Dr. Kana M. Sureshan	Scientist, IISER
	Dr. Reji Varghese	Scientist, IISER
	Dr. Mangalam S. Nair	Scientist, NIIST
	Dr. Rajeev Kumar	JSPS fellow, Tokyo Institute of Technology
	Dr. Sasikumar T.K.	Principal Scientist and GM, GVK Bio Hyderabad

25	<b>Seminar/Conference/ Workshops organized and the source of funding</b>			
	Seminar/Conference/ Workshop	International, National/others	Year	Source of Funding
	Supramolecular Chemistry and Nanoscience	National	2012	Science academies
	Methodology of teaching chemistry for higher secondary teachers	Regional	2011	UGC
	Conformational Analysis and Isomerism of Organic molecules	Regional	2013	Management
	National seminar on current trends in Chemistry	National	2014	UGC



26 Student Profile programme/course wise						
Year	Name of the Course/programme	Applications received	Selected	Enrolled		Pass Percentage
				M	F	
2009-10	UG	252	36	8	28	78
	PG	99	12	2	10	92
2010-11	UG	315	45	7	38	89
	PG	115	12	1	11	92
2011-12	UG	320	34	7	27	100
	PG	CAP	12	1	11	92
2012-13	UG	322	48	12	36	92
	PG	72	12	1	11	100
2013-14	UG	CAP	47	11	26	98
	PG	103	12	1	11	92

27 Diversity of Students				
Year	Name of the Course/programme	% of students from the state	% of students from other states	% of students from abroad
2009-10	UG	100	Nil	Nil
	PG	92	8	Nil
2010-11	UG	100	Nil	Nil
	PG	100	Nil	Nil
2011-12	UG	100	Nil	Nil
	PG	100	Nil	Nil
2012-13	UG	98	2	Nil
	PG	100	Nil	Nil
2013-14	UG	100	Nil	Nil
	PG	100	Nil	Nil

28 How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defence services, etc.		
Year	Examinations passed	No. of students
2010	JRF	1
2011	JRF	5
	NET	4
2012	JRF	4
	NET	2
2014	NET	1

29 Student Progression					
Student Progression	No. of students				
	2009-10	2010-11	2011-12	2012-13	2013-14
UG to PG	41.6	29.41	35.29	61.9	70
PG to M.Phil.	-	-	-	-	-
PG to Ph.D.	10	25	16	25	16
• Employed Campus selection	-	-	-	2	2
• Other than campus recruitment	-	-	-	-	-

30 Details of Infrastructural facilities	
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a) Library	2472 Books and 7 Journals in College Library
b) Internet Facilities for staff and students	Wi-Fi facility for staff, PG students & researchers
c) Class room with ICT facility	Two class rooms
d) Laboratories	3 labs: B.Sc. Lab, M.Sc. lab, Research lab

31	<b>Number of students receiving financial assistance from college, university, government or other agencies</b>			
Year	College	University	Government	Others
	No. of Students	No. of Students	No. of Students	No. of Students
2010-11	Nil	Nil	Nil	Nil
2011-12	Nil	Nil	6 (Inspire)	Nil
2012-13	Nil	Nil	1 (Inspire)	Nil
2013-14	Nil	Nil	4 (Inspire)	Nil

32	<b>Details on student enrichment programmes (special lectures / workshops / seminar) with external experts</b>		
Year	Programme	Resource person	Topic delivered
2010-11	International Year of Chemistry	Prof. C. Ravindranath	Chemical Equilibrium in nature
2011-12	Chemistry association activities	Dr. Dias K.R.	Graphene-Material for future
2012-13	Chemistry association activities	Prof. R. Jayaram	Solar Energy-Current trends
2013-14	Chemistry association activities	Dr. E.A. Jose	Chemistry Applications in daily life
2014-15	Chemistry association activities	Prof. K.R. Janardhanan	Love Chemistry
		Dr. Rajeev Kumar V.R., Tokyo Institute of Technology, Japan	Nanotechnology
		Dr. Manoj Lazar	Research methodology
		Dr. Sasikumar T.K., Principal Scientist and GM, GVK Bio, Hyderabad	Medicinal chemistry

33	<b>Teaching methods adopted to improve student learning</b>
<ul style="list-style-type: none"> <li>• Power point presentation based classroom</li> <li>• Factory visit - to chemical companies</li> <li>• Group discussion, quiz competition and Poster competitions</li> <li>• Remedial classes to those who are below average in class test/ Internal exams</li> <li>• Extra Classes in advanced topics to the top 10% students</li> </ul>	

34	<b>Participation in Institutional Social Responsibility (ISR) and Extension activities</b>
<p><b>Rev. Dr. T.M. Jose</b></p> <ul style="list-style-type: none"> <li>• Senate member, University of Calicut</li> <li>• Principal of the College</li> </ul> <p><b>Mr. Babu Antony Menachery</b></p> <ul style="list-style-type: none"> <li>• Vice Principal of the College</li> </ul> <p><b>Dr. Mathew Paul Ukken</b></p> <ul style="list-style-type: none"> <li>• Elected Member, Faculty of science, University of Calicut.</li> <li>• Question Paper setter - Kerala University UG board and Devagiri College, Calicut</li> </ul>	



(Autonomous).

- Old Students Association (OSA) Secretary of the College.
- Parent Teacher Association (PTA) Secretary 2014-15 of the College.
- Supports Chemistry Dept. of Christ Vidyaniketan in conducting chemistry quiz, science exhibitions and examinations.
- Inaugurated the Science Exhibition at Christ Vidyaniketan and delivered a lecture on General Science 2013-14.
- External examiner for CBSE board exam for plus two students 2014-15.

**Dr. V.D. John**

- Member, PG Board of studies, St. Thomas College (Autonomous).
- Question Paper setter - Kerala University PG board, Kerala University UG board and Mar Evanos College, Trivandrum, (Autonomous).
- Staff Advisor of the College.
- Conducted a seminar on the topic “Scope of Chemistry in the Modern World” in connection with International Year of Chemistry at R. M Higher Secondary School, Aloor.
- Inaugurated the Science Exhibition at Christ Vidyaniketan and delivered a lecture on General Science.
- Released the Chemistry magazine of S. H. College, Chalakudy and delivered a lecture on “Relevance of International Year of Chemistry”.

**Dr. V.T. Joy**

- Member, PG Board of studies, University of Calicut.
- Acted as Judge for Thrissur Revenue District Science Exhibition held at Holy Angels’s Higher Secondary School, Irinjalakuda.

**Dr. Rani Varghese**

- Executive Member, Women’s Development Cell.

**Dr. Digna Varghese**

- CSS Coordinator

**Dr. Robinson P. Ponminiessary**

- NSS Programme Officer

35	<b>SWOC analysis of the department and future plans</b>	
<b>Strength</b>	<ul style="list-style-type: none"> <li>• All members of the Department have either M. Phil or Ph.D. degree.</li> <li>• Three research guides in the Department engaged in active research.</li> <li>• Four full time JRF research scholars.</li> <li>• High ratio of female students in the Department.</li> </ul>	
<b>Weakness</b>	<ul style="list-style-type: none"> <li>• Our Laboratories are not up to the mark for a research centre.</li> <li>• Our students secure high marks in university examinations but similar results are not being produced in national level exams like NET/ JRF. They are less inclined towards research.</li> <li>• Inadequate financial resources for the developmental activities of the research Department.</li> </ul>	
<b>Opportunity</b>	<ul style="list-style-type: none"> <li>• Courses such as B.Sc. Food Science can be started.</li> <li>• Starting an M.Phil programme is under consideration.</li> <li>• Many former students of the Department are in various academic and industrial bodies. We can conduct an international seminar or series of seminars in collaboration with them.</li> </ul>	
<b>Challenges</b>	<ul style="list-style-type: none"> <li>• Doing research in Chemistry is difficult without steady funding from governmental or non-governmental agencies. Currently we face difficulty</li> </ul>	



	<p>in carrying out outstanding projects without good equipment. Generating funding for Departmental infrastructural facilities and chemicals is a challenge.</p> <ul style="list-style-type: none"><li>• Students joining the science stream are not inclined towards research. We should conduct programmes to attract better students to the Chemistry courses.</li><li>• Finding job opportunities for the newly proposed courses are very important. One solution to this problem is to have strong industrial collaborations. Finding right industrial partnership is a challenging task.</li></ul>
<b>Future plans</b>	<ul style="list-style-type: none"><li>• To start M.Phil. Programme in Chemistry.</li><li>• To acquire more sophisticated instruments for the research labs.</li></ul>



## Evaluative Report - Department of Physics

1	Name of the department	Physics		
2	Year of Establishment	1960		
3	Names of Programmes /Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.)	UG – Physics (Core and Complementary)		
		PG – M.Sc. Physics		
		Research Programme – Ph.D. Physics		
4	Names of Interdisciplinary courses and departments involved	Name of Course		Departments Involved
		Open Programme: Non-Conventional Energy resources		All Departments
		Add on Course:		Nil
		Any other: 1. PG Diploma - Green and Sustainable Energy Technologies 2. M.Sc. Environmental Science		Physics and Chemistry Geology and Environmental Science
5	Annual/ Semester/choice based credit system(programme wise)	Choice Based Credit & Semester System (CCSS) for UG & PG		
6	Participation of the department in the courses offered by other departments	Physics Complementary paper for B.Sc. Chemistry M.Sc. Environmental science		
7	Courses in collaboration with other universities, industries, foreign institutions, etc.			Nil
8	Details of courses/programmes discontinued (if any) with reasons			Nil
9	Number of Teaching posts		Sanctioned	Filled
		Professors	Nil	Nil
		Associate Professors	8	8
		Assistant Professors	1	1
		Guest Lectures	Nil	Nil

10	Faculty Profile				
Name	Qualification	Designation	Specialization	Experience in years	Ph.D. Students guided (last 4 years)
Mr. P.P. Thomas	M.Sc.	Associate Professor, HOD	Spectroscopy	31	Nil
Mr. V.P. Anto	M.Sc., M. Phil.	Associate Professor	Chaotic Systems	27	Nil
Dr. V.P. Joseph	M.Sc., Ph.D.	Associate Professor	Microwaves, Metamaterials	26	6 (ongoing)
Mr. K.Y. Shaju	M.Sc., PGDCA, M.Phil.	Associate Professor	Astrophysics, Computational Physics	24	Nil
Mr. Pious Joseph K.	M.Sc., M.Phil.	Associate Professor	Green Energy, Pollution	24	Nil
Dr. P.D. Shaju	M.Sc., Ph.D.	Associate Professor	Superconductivity	18	Nil





Dr. Sudheer Sebastian	M.Sc., PGDCA, M.Phil, Ph.D.	Associate Professor	Complex Networks, Non-linear dynamics	18	Nil
Mr. Xavier Joseph	M.Sc.	Associate Professor	Optical Materials	18	Nil
Dr. (Fr.) Jolly Andrews	M.Sc., M.Phil, Ph.D.	Assistant Professor	Superconductors Microwaves	6	Nil
11	List of Senior Visiting Faculty		1. Dr. P.L. Anto, Research Guide 2. Dr. M. Lakshmi, Research Guide		

12	Percentage of lectures delivered and practical classes engaged by guest faculty (Programme wise)	Year	Core		Complementary		PG
			Theory	Practical	Theory	Practical	Theory
		2010-11	15	15	25	25	20
		2011-12	30	30	30	30	30
		2012-13	15	15	25	25	20
13	Student Teacher Ratio (programme wise)	Year	Core		Complementary		PG
		2013-14	13:1		20:1		3:1
		2012-13	13:1		20:1		3:1
		2011-12	13:1		20:1		3:1
		2010-11	13:1		20:1		3:1
14	Number of academic support staff (technical) and administrative staff				Sanctioned		Filled
		Academic support Staff			3		3
		Administrative Staff			Nil		Nil

15	<b>Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ MPhil/PG</b>	
	Name	Qualification
	Mr. P.P. Thomas	M.Sc.
	Mr. V.P. Anto	M.Sc., M.Phil.
	Dr. V.P. Joseph	M.Sc., Ph.D.
	Mr. K.Y. Shaju	M.Sc., PGDCA, M.Phil.
	Mr. Pious Joseph K.	M.Sc., M.Phil.
	Dr. P.D. Shaju	M.Sc., Ph.D.
	Dr. Sudheer Sebastian	M.Sc., PGDCA, M.Phil., Ph.D.
	Mr. Xavier Joseph	M.Sc.
	Dr. (Fr.) Jolly Andrews	M.Sc., M.Phil., Ph.D.

16	Number of faculty with ongoing projects from a) National b) International funding agencies and grants received:	Name of Principal Investigator	Details of Grant	
			Funding Agency	Grant received
		Dr. V.P. Joseph (Completed)	KSCSTE	8.823 Lakhs
		Dr. V.P. Joseph	UGC	0.58 Lakhs
17	Departmental projects funded by DST-FIST; UGC, DBT, ICSSR, etc. and total grants	Mr. K.Y. Shaju (In collaboration with Academy of Physics)	Details of Grant	
			Funding Agency	Grant Received



	received:	Teachers, Kerala)	KSCSTE	1.9 Lakhs
		Department of Physics	FIST	22 Lakhs
18	Research Centre/facility recognised by the University	Yes, University of Calicut		

19	<b>Publications Details</b>											
A - Publication per faculty (B+C+D+G); B - Number of papers published in peer reviewed journals (national / international) by faculty; C - Number of publications listed in International Database/Citation Index; D - Books with ISBN/ISSN or Chapter in Books; E - Books Edited; F – Sessions Chaired/ Resource Person; G - Publications in the proceedings of Seminars/Conferences; H- SNIP; I – SJR; J- Impact Factor; K-h index												
Name of faculty		A	B	C	D	E	F	G	H	I	J	K
Dr V. P. Joseph		21	3	3	1	1	2	17	-	0.47	3.585	2
Dr. Sudheer Sebastian		7	7	7	-	-	-	-	-	1.731	2.0334	-
Mr. Pious Joseph K.		3	-	-	-	-	-	4	-	-	-	-
Dr. (Fr.) Jolly Andrews		12	4	4	-	-	-	7	-	0.868	1.846	-
Mr. Xavier Joseph		3	2	2	-	-	-	1	-	-	2.044	-
<b>Total</b>		<b>46</b>	<b>16</b>	<b>16</b>	<b>1</b>	<b>1</b>	<b>-</b>	<b>29</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>

<b>Paper Presentation by the teachers</b>			
Name of faculty	International	National	Total
Dr. V.P. Joseph	1	2	3
Mr. Pious K. Joseph	2	2	4
Dr. (Fr.) Jolly Andrews	4	3	7
Mr. Xavier Joseph	1	1	2
<b>Total</b>	<b>8</b>	<b>8</b>	<b>16</b>

<b>Publications/Presentations By Students</b>				
Name	International	National	Regional/State	Total
Publications	-	2	-	2
Presentations	-	14	-	14
<b>Total</b>	<b>-</b>	<b>16</b>	<b>-</b>	<b>16</b>

20	<b>Area of Consultancy and income generated</b>	
Consultancy		Income generated
<b>Dr. V.P. Joseph</b> External Project Guidance (INSPIRE, M. Phil., M. Tech., M.Sc.)		Rs. 30,000/-

21	<b>Faculty as members in National Committees, International Committees etc</b>	
Faculty as members in	Name of the faculty	Name of the committee
National Committees	Nil	Nil
International Committees	Nil	Nil
Editorial Boards	Dr. Sudheer Sebastian Mr. K.Y. Shaju	Reviewer, Elsevier APT Tunes
Any other	Mr. K.Y. Shaju	Secretary, APT-Kerala

22	<b>Student Projects</b>		
	Year	PG	UG



Percentage of students who have done in-house projects including inter departmental/programme	2013-14	58	100
	2012-13	66	100
	2011-12	83	100
	2010-11	100	100
Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/Industry/other agencies	2013-14	42	Nil
	2012-13	34	Nil
	2011-12	17	Nil

23	<b>Awards Recognitions received by faculty and students</b>		
	Name	Student/ Faculty	Awards/ Recognitions received
	Dr. Sudheer Sebastian	Faculty	Fr. Francis Chethalan Endowment Award for Best Paper publication, 2012-13.
	Dr. (Fr). Jolly Andrews	Faculty	Best Paper presentation in World Congress on Research and Innovations (WCR12K13), 2013.
	Dr. (Fr). Jolly Andrews	Faculty	Fr. Francis Chethalan Endowment Award for Best Paper publication, 2014-15.
	Ms. Vinitha N.	Student	B. Sc 1 <sup>st</sup> Position, 2014 University of Calicut.

24	<b>List of eminent academicians and scientists/ visitors to the department</b>	
	Name	Designation
	Dr. M. K. Jayaraj	Scientist, CUSAT
	Dr. P. Asokakumar	Retired Scientist, Lawrence Livermore National Lab, USA
	Mr. K. Vasudevanpillai	Dept. of Physics, NSS College, Nenmara
	Dr. Thomas Antony	Scientist - F, NPOL, Cochin
	Dr. Vincent Mathew	Dean and HOD of Physics, Central University of Kerala
	Dr. Vishnu Mayya Bannur	Professor, Department of Physics, University of Calicut
	Dr. K. Babu Joseph	Scientist, CUSAT
	Dr. Unnikrishnan C.S.	Scientist, Gravitation Group, TIFR
	Dr. C. P. Girijavallabhan	Professor Emeritus, CUSAT
	Dr. K. T. Mathew	Principal, Viswajyothi Eng. College, Moovattupuzha, Professor Emeritus, CUSAT
	Dr. N Harishkumar	Professor, IIT Madras
	Dr. R. Ratheesh	Scientist, CMET
	Dr. H. Sreemoolanadhan	Sup Eng. SF, VSSC, Trivandrum
	Dr. Joe Jacob	Department of Physics, Newman College, Thodupuzha
	Dr. Thomaskutty Mathew	MG University, Kottayam
	Dr. P.T. Ajith Kumar	Light Logistics, Holography, Trivandrum
	Mr. V.N. Purushothaman	Dept. of Physics, Sree Kerala Varma College, Thrissur
	Dr. Ramesh Babu	Professor, Dept. of Physics, CUSAT
	Dr. N. Shaji	Dept. of Physics, Maharaja's College, Ernakulam
	Dr. Ajith Kumar B.P.	Inter university acceleration centre, New Delhi
	Dr. Anuradha S. Prakash	Scientist, ISRO
	Prof. Dr. M.K. Jayaraj	Department of Physics, CUSAT, Kerala
	Dr. T.N. Vasudevan	Retd. Professor, University of Calicut

25	<b>Seminar/Conference/ Workshops organized and the source of funding</b>		
	Seminar/Conference/ Workshop	International,	Source of



	National/others	Year	Funding
Seminar on 'Evolution of Stars'	Regional	2010	Self generated
Seminar on 'Facets of Physics' (In connection with Hiroshima Day)	Regional	2009.	Self generated
Seminar on 'Crisis in Cosmology' (In connection with International year of Astronomy)	Regional	2009	Self generated
'Sky Watch' programme (Workshop)	Regional	2011	Self generated
Open House programme for the Higher Secondary Students of nearby schools	Regional	2011	Self generated
Endowment Seminar on 'Python language'	Regional	2011	Management
Department of Physics and International School of Photonics CUSAT jointly organized a seminar on 'The Evolution of Laser'	Regional	2010.	Self generated
National Seminar on 'Materials for Electromagnetic Applications- EMMET'	National	2011	UGC
Seminar on "Holography: Sculpturing Light" (Holography and its Applications)	Regional	2013	Self generated
Seminar on 'Postulates on Quantum Mechanics and Mysteries in Physics'	Regional	2014	Self generated
Workshop on 'EXP Eyes'	Regional	2014	Self generated
Seminar series project on '100 <sup>th</sup> year of Bohr atom model-Celebration throughout Kerala', in collaboration with APT, Kerala	State	2014	KSCSTE

26 Student Profile programme/course wise						
Year	Name of the Course/programme	Applications received	Selected	Enrolled		Pass Percentage
				M	F	
2009-10	UG	816	48	18	18	89
	PG	67	12	4	8	92
2010-11	UG	849	48	22	23	87
	PG	87	12	1	11	92
2011-12	UG	842	48	13	31	82
	PG	CAP	12	0	12	100
2012-13	UG	916	48	15	28	81
	PG	93	12	2	10	100
2013-14	UG	CAP	48	19	29	88
	PG	103	12	2	10	83

27 Diversity of Students				
Year	Name of the Course/programme	% of students from the state	% of students from other states	% of students from abroad
2009-10	UG	97.3	2.7	Nil
	PG	91.7	8.3	Nil
2010-11	UG	100	Nil	Nil
	PG	100	Nil	Nil
2011-12	UG	100	Nil	Nil
	PG	100	Nil	Nil
2012-13	UG	100	Nil	Nil
	PG	100	Nil	Nil



2013-14	UG	100	Nil	Nil
	PG	100	Nil	Nil

28	<b>How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defence services, etc.</b>			
Year	Examinations passed			No. of students
2010	NET			3
2011	NET-JRF			1
	GATE			1
2012	NET			3
2013	NET-JRF			1
2014	NET			1

29	<b>Student Progression</b>				
Student Progression	No. of students				
	2009-10	2010-11	2011-12	2012-13	2013-14
UG to PG	20	21	27	23	19
PG to M Phil.	Nil	Nil	Nil	Nil	Nil
PG to Ph.D.	2	Nil	Nil	1	Nil
• Employed Campus selection	1	Nil	Nil	2	2
• Other than campus recruitment	8	6	14	8	5

30	<b>Details of Infrastructural facilities</b>	
a) Library	2,989 books in College Library, 6 Journals and EKN Memorial Department Library having 797 books	
b) Internet Facilities for staff and students	Yes	
c) Class room with ICT facility	2	
d) Laboratories	M. Sc. Lab, B.Sc. Lab, Computer Lab and Research Lab.	

31	<b>Number of students receiving financial assistance from college, university, government or other agencies</b>			
Year	College	University	Government	Others
	No. of Students	No. of Students	No. of Students	No. of Students
2010-11	4	Nil	16	3
2011-12	3	Nil	14	4
2012-13	1	Nil	12	4
2013-14	1	Nil	12	Nil
2014-15	1	Nil	18	Nil

32	<b>Details on student enrichment programmes (special lectures / workshops / seminar) with external experts</b>		
Year	Programme	Resource person	Topic delivered
	A seminar on International year of Astronomy	Dr. Babu Joseph, former Vice Chancellor, CUSAT	Crisis in Cosmology
	A seminar on International year of Astronomy	Dr. V.C. Kuriakose, former Head of the department, CUSAT	Seeing the Universe



2009-10	Seminar on Restructuring UG Currruulam	Mr. K. Vasudevanpillai Associate Professor in Physics, NSS College, Nenmara	Semestrization
	Interaction with students	Dr. Thomas Antony, Scientist - F, NPOL, Cochin	Interaction with students for scientific research
	Facets of Physics (Hiroshima Day)	Dr. Vincent Mathew, Dean and HOD of Physics, Central University of Kerala	Superconductivity
Dr. Vishnu Mayya Bannur, Professor, Department of Physics, University of Calicut		Introduction to quantum mechanics	
2010-11	Seminar on 50 Years of Lasers	Dr. C.P. Girijavallabhan, Professor Emeritus, CUSAT	Lasers
2011-12	National Seminar- Materials for Electromagnetic Applications-EMMET	Dr. K.T. Mathew Principal, Viswajyothi Engineering College, Moovattupuzha, Professor Emeritus, CUSAT	Materials for Electromagnetic Applications
		Dr. N. Harishkumar Professor, IIT Madras	Spintronics
		Dr. R. Ratheesh, Scientist, CMET, Thrissur	Materials for Wireless Communication Applications: - Past, Present and Future
		Dr. H. Sreemoolanadhan Sup. Eng. SF VSSC, Trivandrum	Microwave Processing of Materials
		Dr. Vincent Mathew Dean and HOD of Physics, Central University of Kerala	Introduction to superconductivity
		Dr. Thomaskutty Mathew MG University, Kottayam	Materials for EMC/EMI Applications
2012-13	Seminar on Holography	Dr. P.T. Ajithkumar, Light Logistics, Holography, Trivandrum	Holography
2013-14	N. Narayanan Kutty and Fr. George Plassery Endowment Seminar	Dr. Ramesh Babu, Dept. of Physics, CUSAT.	Postulates of Quantum Mechanics
		Dr. N. Shaji, Maharaja's College, Ernakulam	Mysteries of Physics
2014-15	Workshop on EXPEyes	Dr. Ajith Kumar B.P., IUAC, New Delhi	Interfacing using EXPEyes
	Mangalyan Project	Dr. Anuradha S. Prakash, Scientist, ISRO	Mangalyan project
	Astronomy and Astrophysics	Prof. K. Papputty, Rtd. HOD, Madappilly College.	Astronomy and astrophysics

33	<b>Teaching methods adopted to improve student learning</b>
	<ul style="list-style-type: none"> <li>• NPTEL Video Library facility.</li> </ul>



- Power point presentations.
- Tutorial system.
- Periodical evaluation.
- Seminars on important topics.
- Sky watch programme for creating interest in astrophysics.
- Visit to Cochin University of Science and Technology (CUSAT).
- Ovation: Inter collegiate Presentation Contest.
- EKN Memorial Quiz Inter collegiate competition.
- Participation in APT Talent search examination for B.Sc. students in all years.
- Open house – PG students explaining Physics to plus two students.
- Student support program- to support the weaker students in UG Classes.
- Walk with scholar program- to give advance training for B.Sc. students.
- Preparation of students for JAM (IIT selection exams)

34 | **Participation in Institutional Social Responsibility (ISR) and Extension activities**

**Mr. V. P. Anto**

- Life Member Accident Care Transport Service, All India Kidney Federation.
- Students along with the staff visited Santayana Sadanam, Irinjalakuda as a part of learning the lessons of social commitment.

**Dr. V.P. Joseph**

- Resource Person for
  - Research guidance for summer research programmes (INSPIRE, M.Sc., M.Phil., and M.Tech)
  - All India Refresher Course for HSS teachers of Kendriya Vidyalaya, held at Thrissur, 12-05-2010.
  - Workshop on experimental physics at Christ Vidyanikethan School, Irinjalakuda on 18-12-10.
  - Seminar on Communication principles for Higher Secondary teachers of Thrissur district, S. N. School, Irinjalakuda on 30-11-2010.
  - National seminar on Materials for Electromagnetic Applications, Christ College.
  - National seminar on Future of Electromagnetic Communications and Materials, Govt. College, Chittoor, 31-10-2014.
  - National seminar on National conference on Emerging Vistas of Engineering and Management, 25-11-14.
- Member of PG Board of Studies in Physics in University of Calicut.
- Chairman, Board of Studies of Physics and Electronics, St Thomas College, Thrissur (Autonomous).
- Life member of Indian Association of Physics Teachers (IAPT) and Academy of Physics Teachers (APT).

**Mr. K.Y. Shaju**

- Orientation programme and training for higher level competition examination (IIT JAM coaching class) in Mathematical Physics for B. Sc. Physics students of Calicut University organized by TOPIC at St. Thomas College, Thrissur.
- Class on Latex National Workshop on Theoretical Physics at St. Thomas College, Palai on Dec 26, 2014.
- Secretary of APT, Kerala.
- Member in the Editorial Board of APT Tunes (2012).
- Life Member in APT, Kerala.

**Dr. Sudheer Sebastian**

- Reviewer in Elsevier International Journal Publication

**Dr. (Fr.) Jolly Andrews**

- Member (2011-14) in Board of management, executive committee and trustee of AIMS (Amala Institute of Medical Sciences, Amala Nursing College)



- Trustee (2013-14) of Darsanaveedu social rehabilitation programme for differently abled students.
- Member in Board of Management and trustee (2011-14) of Sevanalaya – Rehabilitation centre for mentally sick patients.
- Orientation programme and training for higher level competition examination (IIT JAM coaching class) for B. Sc. Physics students of Calicut University organized by TOPIC on 20-12-2014 at St. Thomas College, Thrissur.
- Conducted a one week life improvement programme on 7th to 13<sup>th</sup> April, 2013 to teachers of differently abled students.
- Conducted a half-day life improvement programme on 23-3-14 to the people of Varandarapilly.
- Conducted a one day programme for senior secondary students of Devamatha CMI Public School Thrissur on 30-8-2014.
- Conducted a one day programme for teachers of Chavara Public School, Dhule at Devamatha CMI Public School, Thrissur on 10-1-2015

35	SWOC analysis of the department and future plans
<b>Strength</b>	<ul style="list-style-type: none"> <li>• Research Centre of University of Calicut with 3 Research Guides and 12 research students</li> <li>• Facilities are established for Theoretical and Experimental Research.</li> <li>• Committed teachers with expertise in specialized areas of research</li> <li>• Going beyond curriculum for excellence.</li> <li>• Preparing students for competitive exams – in UG level for IIT entrance exam and in PG level for NET/JRF/GATE</li> <li>• Well furnished laboratory for B. Sc., M. Sc. and Ph. D. programmes</li> <li>• Utilizing Government programmes like Walk with the Scholar (WWS) and Student Support Programme (SSP) for the benefit of students.</li> </ul>
<b>Weakness</b>	<ul style="list-style-type: none"> <li>• Department realizes that it has to give more personal attention to students.</li> <li>• Limited time for research activities.</li> </ul>
<b>Opportunity</b>	<ul style="list-style-type: none"> <li>• To venture into new research areas in Physics.</li> <li>• Develop more research facilities in our Laboratories by utilizing Govt. funding.</li> <li>• Make more of the students qualify for national level tests like NET, JRF, GATE at PG level.</li> <li>• Help more of our students qualify for national level institutions like IITs and IISc at UG level.</li> </ul>
<b>Challenges</b>	<ul style="list-style-type: none"> <li>• To make the students coming from rural background compete with those at the national level.</li> <li>• To motivate more students to pass national level competitive exams like NET, JAM etc.</li> </ul>
<b>Future plans</b>	<ul style="list-style-type: none"> <li>• Provide research facilities for more students.</li> <li>• Make more students qualify in national level exams in both UG and PG level.</li> <li>• Start a Job oriented add-on course.</li> <li>• Organize various national level programmes.</li> </ul>





## Evaluative Report - Department of Geology and Environmental Science

1	Name of the department		Geology and Environmental Science		
2	Year of Establishment		1981		
3	Names of Programmes /Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.)		UG – B.Sc. Geology Core with Chemistry and Statistics as Complementary		
			PG– M.Sc. Environmental Science		
			PG – M.Sc. Applied Geology		
		Research Programme –		Ph.D. Geology and Environmental Science	
4	Names of Interdisciplinary courses and departments involved	Name of Course:		Departments Involved	
		M.Sc. Environmental Science		Environmental Science Botany, Physics, Mathematics and Economics	
		Open Programme: Understanding the Earth		All Departments	
		Add on Course: Geoinformatics		All Departments	
		Any other: Certificate Course in Geoinformatics		Geology	
5	Annual/ Semester/choice based credit System(programme wise)		Choice Based Credit and Semester System (CCSS) for UG and PG		
6	Participation of the department in the courses offered by other departments		'Understanding the Earth' as Open Course for all the UG Programmes		
7	Courses in collaboration with other universities, industries, foreign institutions, etc.		Certificate Course in Geoinformatics - Centre for Earth Research and Management, Cochin		
8	Details of courses/programmes discontinued (if any) with reasons		Postgraduate Diploma in Disaster Management. UGC sponsored programme - Want of students.		
9	Number of Teaching posts			Sanctioned	Filled
			Professors	Nil	Nil
			Associate Professors	2	2
			Assistant Professors	1	1
			Guest Lectures	5	5

10	<b>Faculty Profile</b>					
	Name	Qualification	Designation	Specialization	Experience in years	Ph.D. Students guided (last 4 years)
	Dr. R.V. Rajan	M.Sc., Ph.D.	Associate Professor HOD	Geochemistry, Mineralogy and Sedimentology	31	Nil
	Dr. S. Sreekumar	M.Sc., Ph.D. PGDDM	Associate Professor	Environmental Geology	31	4 (Ongoing)
	Dr. Linto Alappat	M.Sc., M.Phil., Ph.D.	Assistant Professor	Quaternary Geology, Geochemistry, Sedimentology	2	Nil



Dr. Subin K. Jose	M.Sc., Ph.D.	Guest Lecturer	Environmental Science	3	Nil
Dr. Manju N.J.	M.Sc., Ph.D.	Guest Lecturer	Environmental Science	3 Months	Nil
Dr. Leeju P.	M.Sc., M.Phil., Ph.D., B.Ed.	Guest Lecturer	Chemistry	1	Nil
Mr. Lal T.	M.Sc.	Guest Lecturer	Geology	1	Nil
Dr. Nithya M.	M.Sc., Ph.D.	Guest Lecturer	Remote sensing, Mineral exploration	1	Nil
11	List of Senior Visiting Faculty			Nil	

12	Percentage of lectures delivered and practical classes engaged by guest faculty (Programme wise)	Year	Core	Complementary	PG
		2010-11	30	-	30
		2011-12	30	-	30
		2012-13	30	-	30
13	Student Teacher Ratio (programme wise)	Year	Core	Complementary	PG
		2013-14	11:1	-	3:1
14	Number of academic support staff (technical) and administrative staff			Sanctioned	Filled
		Academic support Staff		1	1
		Administrative Staff		Nil	Nil

15	<b>Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ MPhil/PG</b>	
	Name	Qualification
	Dr. R.V. Rajan	M.Sc., Ph.D.
	Dr. S. Sreekumar	M.Sc., Ph.D.
	Dr. Linto Alappat	M.Sc., M.Phil., Ph.D.
	Dr. Subin K. Jose	M.Sc., Ph.D.
	Dr. Manju N.J.	M.Sc., Ph.D.
	Dr. Leeju P.	M.Sc., B.Ed., M.Phil., Ph.D.
	Mr. Lal T.	M.Sc.
	Dr. Nithya M.	M.Sc., Ph.D.

16	Number of faculty with ongoing projects from a) National funding agency	Name of Principal Investigator	Details of Grant	
		Dr. S. Sreekumar	Funding Agency	Grant received
		Dr. Linto Alappat	UGC	9,10,800
17	Departmental projects funded by DST-FIST; UGC, DBT, ICSSR, etc. and total grants received:	DST	11,40,000	Nil
18	Research Centre/facility recognised by the University	Geology and Environmental Science, University of Calicut		

19	<b>Publications</b>	
A - Publication per faculty (B+C+D+G); B - Number of papers published in peer reviewed journals (national / international) by faculty; C - Number of publications listed in International		



Database/Citation Index; D - Books with ISBN/ISSN or Chapter in Books; E - Books Edited; F – Sessions Chaired; G - Publications in the proceedings of Seminars/Conferences; H- SNIP; I – SJR; J- Impact Factor; K-h index											
Name of faculty	A	B	C	D	E	F	G	H	I	J	K
Dr. R.V. Rajan	5	4	-	-	-	-	1	-	-	-	-
Dr. S. Sreekumar	12	3	2	3	-	2	4	-	-	5.49	2
Dr. Linto Alappat	8	6	-	-	-	-	2	-	-	10.7	3
Dr. Subin K. Jose	33	5	3	5	-	-	20	-	4	3.9	4
Dr. Manju N.J.	1	-	-	-	-	-	1	-	-	-	-
Dr. Leeju P.	4	4	-	-	-	-	-	-	-	-	-
Dr. Nithya M.	7	4	-	-	-	-	3	-	-	-	-
<b>Total</b>	<b>70</b>	<b>26</b>	<b>5</b>	<b>8</b>	<b>-</b>	<b>2</b>	<b>31</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>

20	Area of Consultancy and income generated	
Consultancy		Income generated
<ul style="list-style-type: none"> <li>Water quality analysis</li> <li>Slope stability analysis</li> <li>GIS</li> <li>Geoarchaeology</li> </ul>		Rs. 80,000 /-

21	Faculty as members in National Committees, International Committees etc		
Faculty as members in		Name of the faculty	Name of the committee
National/International Committees, Editorial Boards		-	-
Any other		Dr. R.V. Rajan	Life member, GSI, IAS.
		Dr. S. Sreekumar	Life member, GSI, LAK.

22	Student Projects	
Percentage of students who have done in-house projects including inter departmental/programme		50
Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/Industry/other agencies		50

23	Awards / Recognitions received by faculty and students		
Name	Student/Faculty	Awards/ Recognitions received	
Dr. A.V. George	Faculty	Prof. S. Sivaprasad Foundation Award for Best College Teacher of Kerala, 2010	
Dr. S. Sreekumar	Faculty	Prof. M.M. Ghani Award for the Best College Teacher of Calicut University 2010	
Dr. A.V. George	Faculty	Appointed as the Vice Chancellor of Mahatma Gandhi University, Kottayam, 2013	
Ms. Gigi Baby	Student	M.Sc. Environmental Science 2013, 1 <sup>st</sup> Position, University of Calicut	
Ms. Sreelakshmi E.	Student	M.Sc. Environmental Science 2014, 1 <sup>st</sup> Position, University of Calicut	
Ms. Drishya Divakaran	Student	B.Sc. Geology 2011, 1 <sup>st</sup> Rank, University of Calicut	
Ms. Athira K.R.	Student	B.Sc. Geology 2012, 1 <sup>st</sup> Rank, University of Calicut	
Ms. Arathi Ravindran	Student	B.Sc. Geology 2013, 1 <sup>st</sup> Position, University of Calicut	



Ms. Haritha V.K.	Student	B.Sc. Geology 2014, 1 <sup>st</sup> Position, University of Calicut
Ms. Sruthy P.P.	Student	B.Sc. Geology 2014, 2 <sup>nd</sup> Position, University of Calicut

24	<b>List of eminent academicians and scientists/ visitors to the department</b>	
	Name	Designation
	Dr. M.P. Muraleedharan	Director, GSI
	Dr. C.P. Vinod	Professor, Cardiff University, UK
	Dr. Sabu Thomas	Professor, M.G. University
	Dr. Rani Joseph	Professor, CUSAT, Kochi
	Dr. K.P. Thrivikramaji	Professor, University of Kerala
	Dr. P.S. Easa	Director, KFRI, Peechi
	Dr. E. Shaji	Professor, University of Kerala
	Dr. M.R. Sudharsanakumar	Associate Professor, M.G. College, Thiruvananthapuram
	Prof. P. Indiradevi	Professor, Kerala Agriculture University
	Dr. V.S. Vijayan	Former Director, SIACON
	Dr. A.R.R. Menon	Emeritus Scientist, KFRI, Peechi
	Dr. G. Sreenivasa Reddy	Geologist, Karnataka State Natural Disaster Monitoring Centre, Bangalore
	Prof. Sajeew Krishnan	Professor, IISc, Bangalore

25	<b>Seminar/Conference/ Workshops organized and the source of funding</b>			
	Seminar/Conference/ Workshop	International, National/others	Year	Source of Funding
	Nanotechnology and Nanomaterials – Current Status and Emerging Trends	International	2010	UGC, KSCSTE
	Lecture Series in Earth Science	State	2013	Alumni & Department
	Endowment Lecture Series	State	2014	Alumni & Department
	Science and Environment	National	2014	Dharmaram Vidhyashetram, Globethics.net, Christ University, Bangalore
	Endowment Lecture Series	State	2015	Alumni & Department

26	<b>Student Profile programme/course wise</b>					
	Name of the Course/programme	Applications received	Selected	Enrolled		Pass %
Year				M	F	
2009-10	UG	320	28	180	140	98
	PG	35	10	28	7	100
2010-11	UG	350	32	226	124	97
	PG	51	12	37	14	100
2011-12	UG	325	34	174	151	85
	PG	CAP	13	41	9	100
2012-13	UG	403	32	253	150	81
	PG	84	12	21	63	100
2013-14	UG	CAP	33	215	195	90
	PG	22	13	8	14	95



27 Diversity of Students				
Year	Name of the Course/programme	% of students from the state	% of students from other states	% of students from abroad
2009-10	UG	98	2	Nil
	PG	98	2	Nil
2010-11	UG	98	2	Nil
	PG	98	2	Nil
2011-12	UG	98	2	Nil
	PG	98	2	Nil
2012-13	UG	98	2	Nil
	PG	98	2	Nil
2013-14	UG	98	2	Nil
	PG	98	2	Nil

28 How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defence services, etc.		
Year	Examinations passed	No. of students
2010	NET	2
2011	NET	2
2012	NET	1
2013	NET	1
2014	NET	2

29 Student Progression					
Student Progression	No. of students				
	2009-10	2010-11	2011-12	2012-13	2013-14
UG to PG	20	25	22	19	Nil
PG to M.Phil.	Nil	Nil	Nil	Nil	Nil
PG to Ph.D.	2	1	2	1	3
• Employed Campus selection	Nil	4	2	1	1
• Other than campus recruitment	6	8	8	10	9

30 Details of Infrastructural facilities	
a) Library	630 Geology books, 386 Environmental Science books, Journals - 9.
b) Internet Facilities for staff and students	Yes, to the Teachers, Research Scholars and PG students.
c) Class room with ICT facility	3
d) Laboratories	3 Labs - Geology lab cum Museum, Water analysis Lab cum Environmental Science Lab, GIS Lab.

31 Number of students receiving financial assistance from college, university, government or other agencies					
Year	College	University	Government		Others
	No. of Students	No. of Students	No. of Students		No. of Students
			UG	PG	
2010-11	-	-	48	18	-



2011-12	-	-	50	18	-
2012-13	-	-	44	18	-
2013-14	-	-	47	19	-

32	<b>Details on student enrichment programmes (special lectures / workshops / seminar) with external experts</b>			
Year	Programme	Resource person	Topic delivered	
2010-11	International Seminar Nano Tech-2010	Dr. Sabu Thomas, Professor, M.G. University	Nanomaterials	
		Dr. Vinod C.P. Professor, Cardiff University, UK	Nanotechnology	
		Dr. Rani Joseph, Professor, CUSAT, Kochi	Polyfibers	
2011-12	Invited Talk	Dr. Anto Francis, Associate Professor, Post Graduate Dept. of Geology, Nattakam, Kottayam.	Archaean rocks of Kerala	
2012-13	Endowment seminar	Dr. K.P. Thrivikramaji, Professor, University of Kerala	Holocene sand dune saga	
2013-14	Endowment Lecture	Dr. M.P. Muraleedharan, Director, GSI	Earth science: Concepts and concerns	
2014-15	Endowment Lecture	Prof. Sajeew Krishnan, Professor, IISc, Bangalore	Linkage of India and Madagaskar: A Gondwana Perspective	
		Mr. George Mathew Paul, Research Fellow, IISc, Bangalore	Earth and crustal evolution	
	National Seminar	Dr. P.S. Easa, Director, KFRI, Peechi	Biodiversity and conservation	
		Dr. E. Shaji, Professor, University of Kerala	Hydrogeology	
		Prof. P. Indiradevi, Professor, Kerala Agriculture University	Food security	
		Dr. V.S. Vijayan, Former Director, SIACON	Western Ghats conservation	
		Dr. A.R.R. Menon, Emeritus Scientist, KFRI, Peechi	GIS applications	
	Invited Talk	Dr. M.R. Sudharsanakumar, Associate Professor, M.G. College, Thiruvananthapuram	Innovations in Laboratory Experimentation in Chemistry	
		Dr. G. Sreenivasa Reddy, Geologist, Karnataka State Natural Disaster Monitoring Centre, Bangalore	Drought management	

33	<b>Teaching methods adopted to improve student learning</b>
<ul style="list-style-type: none"> <li>• Class tests conducted at regular intervals</li> <li>• Topic wise quiz conducted regularly</li> <li>• Field visits</li> <li>• Counseling given to students regarding their progress in studies</li> <li>• Mark analysis done and intimated to the parents and students</li> </ul>	



34	<b>Participation in Institutional Social Responsibility (ISR) and Extension activities</b>
<ul style="list-style-type: none"> <li>• Involvement in societal, cultural activities- faculty as members of organizing committees in regional cultural activities.</li> <li>• Translating spiritual writings for social well-being.</li> <li>• Resource persons for awareness programs in environmental conservation, disaster management and educational development of school children.</li> <li>• Drinking Water quality analyses and suggesting strategies for quality improvement.</li> </ul> <p><b>Dr. R.V. Rajan</b></p> <ul style="list-style-type: none"> <li>• Member, Board of studies in Geology and Environmental science, University of Calicut.</li> <li>• Member, Board of studies in Geology, M.G. University, Kottayam.</li> <li>• Member, Board of studies in Geology, KUFOS.</li> </ul> <p><b>Dr. S. Sreekumar</b></p> <ul style="list-style-type: none"> <li>• Member, Board of studies in Gemology, University of Calicut.</li> <li>• Member, Board of studies in Environmental science, University of Kerala.</li> <li>• Published six articles in various news papers and magazines.</li> </ul>	

35	<b>SWOC analysis of the department and future plans</b>	
<b>Strength</b>	<ul style="list-style-type: none"> <li>• Membership in the Examination Boards and Board of Studies of Calicut and other Universities.</li> <li>• All permanent faculty are Ph.D. Degree</li> <li>• Faculty with State level recognitions.</li> <li>• Excellent and healthy student-teacher relationship.</li> <li>• Well-equipped laboratory and classrooms.</li> <li>• Excellent Geological museum.</li> <li>• Full-fledged GIS and Water Testing Laboratory.</li> <li>• Recognized Research Centre.</li> <li>• Alumni in highest positions in Oil fields and Research Laboratories.</li> <li>• Though the students are from weaker section of the society, they get good placement and become instrumental in uplifting their family standards.</li> <li>• Highest pass percentage in the University.</li> <li>• High rate of enrolment for Post graduation</li> </ul>	
<b>Weakness</b>	<ul style="list-style-type: none"> <li>• Among the students opting Geology, only 25% come with good academic records.</li> <li>• Students are mostly from weaker section and therefore the frequent field study trips, which are an integral part of the programme, become difficult.</li> <li>• As more emphasize is given to the teaching component sufficient time cannot be spared for research activities.</li> </ul>	
<b>Opportunity</b>	<ul style="list-style-type: none"> <li>• Collaborating with SAARC –UN programme on Climate Change and Disaster Management.</li> <li>• MoU with foreign Universities and arranging student exchange programmes.</li> <li>• MoU with Industry/research organizations to increase exposure and job opportunities.</li> </ul>	
<b>Challenges</b>	<ul style="list-style-type: none"> <li>• Upbringing of the weaker students academically is a challenge.</li> <li>• Feasibility issues related to exchange programme with foreign universities and visa procedures.</li> <li>• Recognition from University for proposed PG Diploma, M.Phil. and</li> </ul>	



	exchange programmes.
<b>Future plans</b>	<ul style="list-style-type: none"><li>• The Department is planning to set up a Centre for Geo Informatics .The objectives include conduct of PG diploma certificate courses, training programmes for school teachers, consultancy work. Already existing GIS lab can be updated by starting this centre.</li><li>• Starting M.Phil. Programme in Geology.</li><li>• Organizing an International seminar in 2015-16.</li></ul>





## Evaluative Report - Department of History

1	Name of the department	History		
2	Year of Establishment	1958		
3	Names of Programmes /Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.)	UG – Complementary History		
		PG – M.A. History		
		Research Programme – Ph.D. in History		
4	Names of Interdisciplinary courses and departments involved	Name of Course	Departments Involved	
		Open Programme	Nil	
		Add on Course	Nil	
		Any other	Nil	
5	Annual/ Semester/choice based credit system(programme wise)	Choice Based Credit & Semester System (CCSS) for UG & PG		
6	Participation of the department in the courses offered by other departments	Complementary History for B.A. Economics students		
7	Courses in collaboration with other Universities, industries, foreign institutions etc.	Nil		
8	Details of courses/programmes discontinued (if any) with reasons	Nil		
9	Number of Teaching posts		Sanctioned	Filled
		Professors	Nil	Nil
		Associate Professors	1	1
		Assistant Professors	4	4
		Guest Lectures	Nil	Nil

10	Faculty Profile					
	Name	Qualification	Designation	Specialization	Experience in years	Ph.D. Students guided (last 4 years)
	Dr. K.Chandran	M.A., M.Phil., Ph.D.	Associate Professor, HOD	Kerala History	30	1 (Ongoing)
	Ms. K.K. Lisha	M.A.	Assistant Professor	Subaltern Studies	4	Nil
	Dr.Binu M. John	M.A., Ph.D.	Assistant Professor	Maritime History	3	Nil
	Dr. Sreevidhya V.	M.A., Ph.D.	Assistant Professor	Gender Studies	3	Nil
	Ms. Jincy S.R.	M.A.,M.Phil., PGDCA	Assistant Professor	Cultural Studies	3	Nil
	Dr. K.T. Thomas (Retired on March 2012)	M.A., Ph.D.	Associate Professor (HOD Retd.)	Indian History and Kerala History	30	6 (Ongoing)
11	List of Senior Visiting Faculty	Nil				

12	Percentage of lectures delivered and practical classes engaged by guest faculty (Programme-wise)	Year	Core	Complementary	PG
		2010-11	Nil	Nil	Nil
		2011-12	Nil	Nil	Nil
		2012-13	Nil	Nil	Nil
		2013-14	Nil	Nil	20



13	Student Teacher Ratio (programme wise)	Year	Core	Complementary	PG
		2013-14	NA	30:1	5:1
14	Number of academic support staff (technical) and administrative staff			Sanctioned	Filled
		Academic support Staff		Nil	Nil
		Administrative Staff		Nil	Nil

15	<b>Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ MPhil/PG</b>			
Name		Qualification		
Dr. K. Chandran		M.A., M.Phil., Ph.D.		
Ms. K.K. Lisha		M.A.		
Dr. Binu M. John		M.A., Ph.D.		
Dr. Sreevidhya V.		M.A., Ph.D.		
Ms. Jincy S.R.		M.A., M.Phil.		

16	Number of faculty with ongoing projects from a) National b) International funding agencies and grants received	Nil
17	Departmental projects funded by DST-FIST; UGC, DBT, ICSSR, etc. and total grants received	Nil

18	Research Centre/facility recognised by the University	Research Centre in History, University of Calicut
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19	<b>Publications</b>											
A - Publication per faculty (B+C+D+G); B - Number of papers published in peer reviewed journals (national / international) by faculty; C - Number of publications listed in International Database/Citation Index; D - Books with ISBN/ISSN or Chapter in Books; E - Books Edited; F – Sessions Chaired; G - Publications in the proceedings of Seminars/Conferences; H- SNIP; I – SJR; J- Impact Factor; K-h index												
Name of faculty	A	B	C	D	E	F	G	H	I	J	K	
Dr .K. Chandran	2	-	-	-	-	-	2	-	-	-	-	
Ms. K.K. Lisha	1	1	-	-	-	-	-	-	-	-	-	
Dr.Binu M. John	3	2	-	1	-	-	-	-	-	-	-	
Dr. Sreevidhya V.	-	-	-	-	-	2	-	-	-	-	-	
Ms. Jincy S.R.	2	-	-	1	-	-	1	-	-	-	-	
<b>Total</b>	8	3	-	2	-	2	3	-	-	-	-	

20	<b>Area of Consultancy and income generated</b>	
Consultancy		Income generated
<ul style="list-style-type: none"> <li>Helped to organize a Museum in Mapranam Church, Thrissur</li> <li>PSC Coaching to Youth organized by Kallettumkara Church, Thrissur</li> </ul>		Nil

21	<b>Faculty as members in National Committees, International Committees etc</b>	
Faculty as members in	Name of the faculty	Name of the committee
National Committees	Dr. K.T. Thomas	Member, National Executive of Indian History Council

22	<b>Student Projects</b>
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Percentage of students who have done in-house projects including inter departmental/programme	100
Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/Industry/other agencies	Nil

23	<b>Awards / Recognitions received by faculty and students</b>		
	Name	Student/Faculty	Awards/ Recognitions received
	Dr. K.T. Thomas	Faculty	Prof. M.M. Ghani Award for the Best College Teacher of University of Calicut
	Ms. Aparna Venugopal	Student	M.A. History, 2 <sup>nd</sup> position, 2014, University of Calicut.

24	<b>List of eminent academicians and scientists/ visitors to the department</b>	
	Name	Designation
	Prof. Dr. M.G.S. Narayanan	Historian, Calicut
	Prof. Steven E. Sidebotham	Historian, USA
	Dr. Ariane Saxce	Historian, University of Paris, France
	Prof. Robin Cunningham	Historian, U.K
	Prof. Ranabir Chakrabarthy	Historian, JNU, New Delhi
	Dr. Selvakumar V.	Archaeologist, Thanjavur
	Dr. P.J. Cherian	Director, Kerala Council of Historical Research, Trivandrum
	Dr. M.R. RaghavaVarier	Historian, Calicut

25	<b>Seminar/Conference/ Workshops organized and the source of funding</b>			
	Seminar/Conference/ Workshop	International, National/others	Year	Source of Funding
	Conference	International	2013	ASI & Marthoma Centre
	Seminar	Others	2015	Department of History

26	<b>Student Profile programme/course wise</b>						
	Year	Name of the Course/programme	Applications received	Selected	Enrolled		Pass %
					M	F	
	2009-10	PG	47	20	1	17	90
	2010-11	PG	52	20	1	16	100
	2011-12	PG	CAP	20	1	16	90
	2012-13	PG	53	20	1	16	82
	2013-14	PG	54	20	3	14	90

27	<b>Diversity of Students</b>				
	Year	Name of the Course/programme	% of students from the state	% of students from other states	% of students from abroad
	2009-10	PG	100	Nil	Nil
	2010-11	PG	100	Nil	Nil
	2011-12	PG	100	Nil	Nil
	2012-13	PG	100	Nil	Nil
	2013-14	PG	90	10	Nil



28	<b>How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defence services, etc.</b>		
	Year	Examinations passed	No. of students
	2010	NET	1
	2012	NET	1
	2013	NET	1

29	<b>Student Progression</b>					
	Student Progression	No. of students				
		2009-10	2010-11	2011-12	2012-13	2013-14
	PG to M Phil.	-	-	-	1	2
	PG to Ph.D.	2	-	-	-	-
	Employed Campus selection	-	-	-	-	-
	Other than campus recruitment	-	-	-	1	-

30	<b>Details of Infrastructural facilities</b>	
	a) Library	1640 books and 3 Journals in Christ College Library, 490 books in Department Library.
	b) Internet Facilities for staff and students	Yes, for staff in the Department and for students in the Library
	c) Class room with ICT facility	Nil
	d) Laboratories	Nil

31	<b>Number of students receiving financial assistance from college, university, government or other agencies</b>				
	Year	College	University	Government	Others
		No. of Students	No. of Students	No. of Students	No. of Students
	2010-11	-	-	29	-
	2011-12	-	-	30	-
	2012-13	-	-	31	-
	2013-14	-	-	30	-

32	<b>Details on student enrichment programmes (special lectures / workshops / seminar) with external experts</b>			
	Year	Programme	Resource person	Topic delivered
	2012-13	Invited Lecture	Ms. N. Chandravadana	Career guidance
		Seminar	Prof. Dr. M.G.S. Narayanan, Historian, Calicut	Medieval Kerala Society
	2013-14	International Seminar on Muziris	Prof. Steven E. Sidebotham Historian, USA	From the Mediterranean to South Asia: The Odyssey of an Indian Merchant Roman Times
			Dr. Ariane Saxce, Historian, University of Paris, France	Local exchanges v/s long distance trade: the contacts between the West Coast of India and Sri Lanka in the Mediterranean trade
			Prof. Robin Cunningham, Historian, U.K.	Reconstructing networks of trade and exchange in the Indian Ocean during the early historic period: Case



			studies from Anuradhapura (Sri Lanka)
		Prof. Ranabir Chakrabarthy, Historian, JNU, New Delhi	The Port of Muziris in relation to its Hinterland and Foreland
		Dr. Selvakumar, V. Archaeologist, Thanjavur	Ancient Ports of Kerala: An Overview
		Dr. P.J. Cherian, Director, Kerala Council of Historical Research, Trivandrum	Indian Ocean maritime network and the archaeological evidence from Pattanam, India
2014-15	Invited Lecture	Dr. M.R. Raghava Varier, Historian, Calicut	Tharisapalli: A Historical Perspective

33	<b>Teaching methods adopted to improve student learning</b>
	<ul style="list-style-type: none"> <li>• Periodical class-wise seminars</li> <li>• Debates</li> <li>• Periodical test papers</li> <li>• Dissertation works</li> <li>• Assigning students to prepare on current events</li> <li>• Organizing visits of students to historical and archaeological sites</li> </ul>

34	<b>Participation in Institutional Social Responsibility (ISR) and Extension activities</b>
	<ul style="list-style-type: none"> <li>• Teachers providing coaching for competitive examinations – NET, PSC</li> <li>• Students participating in the general programmes of the college</li> </ul>

35	<b>SWOC analysis of the department and future plans</b>
<b>Strength</b>	<ul style="list-style-type: none"> <li>• 3 teachers with Ph.D. Degree</li> <li>• 2 Full-time and 5 part time Ph.D. research scholars</li> <li>• College situated in close proximity of many historical places</li> <li>• More scope for exploring the local history</li> <li>• Due concern of the management for promoting social sciences</li> </ul>
<b>Weakness</b>	<ul style="list-style-type: none"> <li>• Details of Alumni is not consolidated</li> </ul>
<b>Opportunity</b>	<ul style="list-style-type: none"> <li>• Being a Research Department we have more scope for research activities</li> </ul>
<b>Challenges</b>	<ul style="list-style-type: none"> <li>• To attract more students with research interest</li> </ul>
<b>Future plan</b>	<ul style="list-style-type: none"> <li>• To start advanced courses in History - M. Phil., Archaeology, Archival Studies, Museology etc.</li> <li>• A Centre of special coaching for UGC, Civil Service, PSC etc.</li> <li>• To begin an advanced course in Gender Studies</li> <li>• To promote inter-departmental research – Collaboration with the Department of Environmental Science.</li> <li>• To start a History Museum.</li> </ul>



## Evaluative Report - Department of Economics

1	Name of the department	Economics		
2	Year of Establishment	1958		
3	Names of Programmes /Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.)	UG – B.A. Economics		
		PG– M.A. Economics		
		Ph.D.– Economics		
4	Names of Interdisciplinary courses and departments involved	Name of Course	Departments Involved	
		Open Programme: Banking	All Departments	
		Add on Course	Nil	
		Any other	Nil	
5	Annual/ Semester/choice based credit system(programme wise)	Choice Based Credit & Semester System (CCSS) for UG & (CUCSS) for PG		
6	Participation of the department in the courses offered by other departments	M.Sc. Environmental Science		
7	Courses in collaboration with other universities, industries, foreign institutions, etc.	Nil		
8	Details of courses/programmes discontinued (if any) with reasons	Nil		
9	Number of Teaching posts		Sanctioned	Filled
		Professors	Nil	Nil
		Associate Professors	4	4
		Assistant Professors	3(One Political Science)	3
		Guest Lectures	1	1

10	Faculty Profile				
Name	Qualification	Designation	Specialization	Experience in years	Ph.D. Students guided (last 4 years)
Dr. K.A. Stephanson	M.A., Ph.D.	Associate Professor H O D	Labour Studies and Environmental Studies	32	2 (Awarded) 4 (Ongoing)
Dr. E.M. Thomas	M.A., Ph.D.	Associate Professor	Decentralized Planning	32	1 (Awarded) 5 (Ongoing)
Mr. George Kolangadan	M.A., M.Phil.	Associate Professor	Banking	31	Nil
Dr. C.J. Unni (Retd. on March 2013)	M.A., Ph.D.	Associate Professor	Micro Credit	26	Nil
Mr. P.R. Bose,	M.A., M.Phil.	Associate Professor	Econometrics	27	Nil
Sr. Rosy V.O.	M.A., M.Phil.	Assistant Professor	Fiscal Economics	5	Nil
Mr. Jagan Sebastian George (Relieved from College on 6-11-	M.A.	Assistant Professor	Indian Economy	3	Nil



2013)					
Mr. Franco T. Francis	M.A., M.Ed.	Assistant Professor	Micro Economics	1	Nil
Dr. K.V. Cybil (Political Science)	M.A., Ph.D.	Assistant Professor	Political Sociology	1	Nil
Ms.Vineetha K.B.	M.A., B.Ed.	Guest Lecturer	Migration	6	Nil
11	List of Senior Visiting Faculty		Nil		

12	Percentage of lectures delivered and practical classes engaged by guest faculty (Programme wise)	Year	Core	Complementary	PG
		2010-11	Nil	50	Nil
		2011-12	Nil	50	Nil
		2012-13	Nil	50	Nil
		2013-14	6.66	25	Nil
13	Student Teacher Ratio (programme wise)	Year	Core	Complementary	PG
		2013-14	30:1	30:1	7:1
		2014-15	30:1	30:1	7:1
14	Number of academic support staff (technical) and administrative staff			Sanctioned	Filled
		Academic support Staff		Nil	Nil
		Administrative Staff		Nil	Nil

15	<b>Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ MPhil/PG</b>	
	Name	Qualification
	Dr. K.A. Stephanson	M.A., Ph.D.
	Dr. E.M. Thomas	M.A., Ph.D.
	Mr. George Kolangadan	M.A., M.Phil.
	Mr. P.R. Bose	M.A., M.Phil.
	Sr. Rosy V.O.	M.A., B.Ed., M.Phil.
	Mr. Franco T. Francis	M.A., M.Ed.
	Dr. K.V. Cybil	M.A., Ph.D.
	Ms. Vineetha K.B.	M.A., B.Ed.

16	Number of faculty with ongoing projects from a) National b) International funding agencies and grants received	Nil
17	Departmental projects funded by DST-FIST; UGC, DBT, ICSSR, etc. and total grants received	Nil

18	Research Centre/facility recognised by the University	Research Centre of University of Calicut with two research guides
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19	<b>Publications Details</b>	
A - Publication per faculty (B+C+D+G); B - Number of papers published in peer reviewed journals (national / international) by faculty; C - Number of publications listed in International Database/Citation Index; D - Books with ISBN/ISSN or Chapter in Books; E - Books Edited; F – Sessions Chaired; G - Publications in the proceedings of Seminars/Conferences; H- SNIP; I – SJR; J- Impact Factor; K-h index		



Name of faculty	A	B	C	D	E	F	G	H	I	J	K
Dr. K.A. Stephanson	2	1	-	1	-	2	-	-	-	-	-
Dr. E.M. Thomas	16	7	-	6	1	3	-	-	-	-	-
Sri. George Kolangadan M.A.	1	-	-	-	-	-	1	-	-	-	-
Sri. Franco T. Francis	7	4	-	3	-	-	-	-	-	-	-
Dr. K.V. Cybil	2	2	-	-	-	-	-	-	-	-	-
<b>Total</b>	<b>28</b>	<b>14</b>	<b>-</b>	<b>10</b>	<b>1</b>	<b>5</b>	<b>1</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>

<b>Paper Presentation by the teachers</b>				
Name of faculty	International	National	Regional/State	Total
Dr. E.M. Thomas	1	1	-	2
Dr. K.V. Cybil	1	5	-	6
<b>Total</b>	<b>2</b>	<b>6</b>	<b>-</b>	<b>8</b>
<b>Publications/Presentations By Students</b>				
Name	International	National	Regional/State	Total
Publications	-	-	-	-
Presentations	3	6	-	9
<b>Total</b>	<b>3</b>	<b>6</b>	<b>-</b>	<b>9</b>

20	Area of Consultancy and income generated	Nil
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21	<b>Faculty as members in National Committees, International Committees etc</b>	
Faculty as members in	Name of the faculty	Name of the committee
National and International Committees	Dr. K.A. Stephanson	A member of the International Advisory Board of International Journal of Tourism Research (IJTR), 2014

22	<b>Student Projects</b>	
Percentage of students who have done in-house projects including inter departmental/programme		100
Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/Industry/other agencies.		Nil

23	<b>Awards Recognitions received by faculty and students</b>		
Name	Student/Faculty	Awards/ Recognitions received	
Dr. E.M. Thomas	Faculty	<ul style="list-style-type: none"> <li>National Award for the Best College Teacher, by AIACHE, New Delhi, 2010.</li> <li>Winner of Mar Antony Padiyara Award for the best Writer of value based articles in Malayalam dailies, 2010.</li> <li>Winner of Best NSS Programme Officer Award from University of Calicut, 2010.</li> <li>Brother Louis Manjaly Memorial Literary Award for the book 'Dr. P.J. Thomas Keynes of Kerala', 2014</li> </ul>	
Mr. Justin Thomas	Student	Young Economists award from Christ University, Bangalore, 2010.	
Ms. Praseetha V.P.	Student	M.A. Economics 2 <sup>nd</sup> position 2014, University of Calicut	





24	<b>List of eminent academicians and scientists/ visitors to the department</b>	
	Name	Designation
	Dr. K.P. Mani	Professor, Dr. John Mathai Centre, University of Calicut, Aranattukara, Thrissur.
	Dr. P.P. Pillai	Retd. Prof. Dr. John Mathai Centre, University of Calicut, Aranattukara, Thrissur.
	Dr. Lakshmi Devi K.R.	Retd. Prof. Dr. John Mathai Centre, University of Calicut, Aranattukara, Thrissur.
	Dr. V.K. Vijayakumar	Investment Strategist, Geojit, BNP Paribas, Kaloor, Kochi.
	Dr. Haseena Beevi K.K.	HOD, Economics, SN College, Alathur
	Sri. P.K. Jayaraj	Crime Branch SP, Thrissur.
	Dr. George Mathew	Orthopedic Surgeon, Producer of the Film 'Apothikkiri'.
	Dr. Vimala M.	Associate Professor, PG Department of Economics, Vimala College, Thrissur.

<b>Seminar/Conference/ Workshops organized and the source of funding</b>				
25	Seminar/Conference/ Workshop	International, National/others	Year	Source of Funding
	National Seminar on "Impact of Globalization on Higher Education"	National	2013	State Higher Education Council.

26	<b>Student Profile programme/course wise</b>					
Year	Name of the Course/programme	Applications received	Selected	Enrolled		Pass Percentage
				M	F	
2009-10	UG	600	60	24	36	93
	PG	150	20	1	19	66.6
2010-11	UG	575	60	23	37	88.3
	PG	140	21	1	19	90.5
2011-12	UG	600	60	26	34	76.6
	PG	CAP	20	4	16	87.5
2012-13	UG	580	60	25	35	72.3
	PG	150	20	3	17	77.7
2013-14	UG	CAP	60	24	36	83.0
	PG	140	20	3	17	100

27	<b>Diversity of Students</b>			
Year	Name of the Course/programme	% of students from the state	% of students from other states	% of students from abroad
2009-10	UG	100	0	0
	PG	100	0	0
2010-11	UG	100	0	0
	PG	100	0	0
2011-12	UG	98.3	1.67	0
	PG	100	0	0
2012-13	UG	100	0	0



	PG	100	0	0
2013-14	UG	98.3	1.67	0
	PG	100	0	0

28	<b>How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defence services, etc.</b>			
Year	Examinations passed		No. of students	
2010	-		-	
2011	-		-	
2012	NET		4	
2013	-		-	

29	<b>Student Progression</b>				
Student Progression	No. of students				
	2009-10	2010-11	2011-12	2012-13	2013-14
UG to PG	40	42	30	26	30
PG to M.Phil.	3	1	-	-	-
PG to Ph.D.	3	1	1	1	2
Employed Campus selection	-	-	-	-	1
Other than campus recruitment	34	34	24	24	25

30	<b>Details of Infrastructural facilities</b>	
a) Library	3,840 Economics books, 611 Political Science books and 9 Journals in College Library	
b) Internet Facilities for staff and students	Yes, for staff and PG students	
c) Class room with ICT facility	Nil	
d) Laboratories	Computer Lab with 5 computers	

31	<b>Number of students receiving financial assistance from college, university, government or other agencies</b>			
Year	College	University	Government	Others
	No. of Students	No. of Students	No. of Students	No. of Students
2010-11	-	-	41	-
2011-12	-	-	53	1
2012-13	-	-	57	-
2013-14	-	-	49	-

32	<b>Details on student enrichment programmes (special lectures / workshops /seminar) with external experts</b>		
Year	Programme	Resource person	Topic delivered
2010-11	Work shop	Dr. Sunanda C., Ushus, Indira Nagar, Mannuthy	Project Preparation – Designing and Analysis
2011-12	Invited Lecture	Dr. V.K. Vijayakumar, Investment Strategist, Geojit, BNP Paribas, Kaloor, Kochi.	Euro Crisis
2012-13	Invited Lecture	Dr. K. P. Mani, Professor, Dr. John Mathai Centre, University of Calicut, Aranattukara, Thrissur.	Foreign Direct Investment in Retail Sector



2013-14	Invited Lecture	Dr. Haseena Beevi K. K., HOD, of Economics, SN College, Alathur	Health Status of Muslim women in Kerala
	Invited Lecture & Presentation Contest	Dr. V.O. Baby, Associate Professor, St. Joseph College, Irinjalakuda.	Community housing projects in Kerala
	Inter Collegiate Quiz Competition	Dr. Sanoop K., Assistant Professor, Panampilly Memorial college, Chalakudy.	Economics
	Invited Lecture	Sri. P.K. Jayaraj, Crime Branch SP, Thrissur.	Economics of crime
2014-15	Invited Lecture	Dr. George Mathew, Orthopedic Surgeon, Producer of the Film 'Apothikkiri'.	Health Care System in Kerala
	Invited Lecture	Dr. Haseena, Assistant Professor, Department of Economics, MES College Asmabi, P Vemballur.	Dynamics of Women Empowerment and the need for Capacity development Programme in Kerala
	Invited Lecture	Dr. Ramya R., Assistant Professor, PG Department of Economics, Govt. College, Kuttanullur.	Economic and social perspective on Time Management by women in Kerala
	Invited Lecture	Dr. Vimala M., Associate Professor, PG Department of Economics, Vimala College, Thrissur.	Changing Phases of Women in Agriculture
	Presentation contest	Dr. Ramya R., Assistant Professor, PG Department of Economics, Govt. College, Kuttanullur	Women Empowerment
	Invited Lecture	Dr. K.P. Mani, Prof. Dr. John Mathai Centre, University of Calicut, Aranattukara, Thrissur.	Research Design & Methodology in Social Sciences
	Invited Lecture	Sri. Jasimudeen S., Research Scholar MG University Kottayam, Librarian, Stephae'n's College, Uzhavoor.	Plagiarism

33	<b>Teaching methods adopted to improve student learning</b>
<ul style="list-style-type: none"> <li>• Debate.</li> <li>• Discussion.</li> <li>• Quiz.</li> <li>• Seminar.</li> <li>• Assignments.</li> <li>• Internal assessment.</li> <li>• Remedial coaching.</li> <li>• Survey method and learning through activity.</li> <li>• Viva – Voce.</li> <li>• Power point presentation.</li> </ul>	



34	<b>Participation in Institutional Social Responsibility (ISR) and Extension activities</b>
<p><b>Dr. K.A. Stephanson</b></p> <ul style="list-style-type: none"> <li>Delivered a lecture on “Poverty in India” in connection with observance of International poverty eradication day on 17<sup>th</sup> October 2011 at St. Joseph’s College, Irinjalakuda</li> <li>Delivered a talk on “The need for Self Identification of Talents for the Socio Economic Survival” in the Inaugural Function of Economics Association on 24<sup>th</sup> January 2011 at Sacred Heart College, Chalakkudy.</li> <li>Delivered a talk on “Self Empowerment through Self Identification of Talents” in connection with inaugural function of Economics Association at St. Thomas College, Thrissur on 1<sup>st</sup> January 2011.</li> <li>Delivered an extension lecture on “ Project Designing and Preparation” for the degree students of MES Asmabi College, Vemballur on 23-1-2012</li> <li>Delivered an extension lecture on “Project Designing and Preparation” for the students of Economics in Calicut University Centre, Kadamat on 6<sup>th</sup> November 2012.</li> <li>Delivered an extension lecture on “Research Methodology and Project Evaluation” on 10<sup>th</sup> December 2012 at MES Asmabi College, Vemballur.</li> <li>Music Club coordinator of the College.</li> </ul> <p><b>Dr. E.M. Thomas</b></p> <ul style="list-style-type: none"> <li>Economics PG Board of studies member, University of Calicut.</li> <li>Resource person for “Subhashitham”, programme of Akasavani – All India Radio, Thrissur since 2003.</li> <li>Delivered a talk on “International Financial Crisis” in connection with the inauguration of the Economics Association at Sacred Heart College, Chalakkudy on 6<sup>th</sup> December 2011.</li> <li>Conducted an Orientation programme for the students of 10<sup>th</sup> standard students of Christ Vidyanikedhan, Irinjalakuda (2014).</li> <li>Conducted an Orientation programme for the students of 12<sup>th</sup> standard students of Christ Vidyanikedhan, Irinjalakuda (2014).</li> <li>Editorial pages written in Mathrubhoomy Newspaper Daily on “Challenges of decentralized planning in Kerala, Gramma Sabha, Problems of Decentralization, Ashraya Project and the poor, MGNREGA and unemployment and Beneficiary committees in Kerala”.</li> </ul> <p><b>Mr. George Kolengaden</b></p> <ul style="list-style-type: none"> <li>Chief superintend of the University examinations, Christ College during 2013-14.</li> </ul> <p><b>Sr. V.O. Rosy</b></p> <ul style="list-style-type: none"> <li>Ladies Hostel Warden 2009 - 2014</li> </ul> <p><b>Dr. K.V. Cybil</b></p> <ul style="list-style-type: none"> <li>Delivered an extension lecture on ‘Equality, social justice and social exclusion’ on 5<sup>th</sup> August 2014 at Institute of Palliative Medicine Medical College, Calicut.</li> <li>Organized a two-day National conference on Social Justice as a Question of Empirical Sciences in association with Nehru Memorial Museum and Library, New Delhi on 11 &amp; 12 December 2014.</li> </ul>	

35	<b>SWOC analysis of the department and future plans</b>
<b>Strength</b>	<ul style="list-style-type: none"> <li>Research department.</li> <li>Teachers with research degree.</li> <li>Three research scholars have been awarded Ph.D. degree under the supervision of two guides in the Department.</li> <li>Conducting debate, discussion, quiz and essay competitions periodically for students.</li> <li>Teachers with good number of publications.</li> </ul>



	<ul style="list-style-type: none"><li>• Paper presentations by students.</li></ul>
<b>Weakness</b>	<ul style="list-style-type: none"><li>• The students are from rural background and many of them are first learner families.</li><li>• The number of students who select Economics, as first option is very less and lack of interest in studying Economics.</li></ul>
<b>Opportunity</b>	<ul style="list-style-type: none"><li>• Students can very often be inspired by lectures conducted by the Department.</li><li>• Overall development of students.</li><li>• Imparting necessary guidance to students and making them career oriented.</li><li>• Increased participation of students in the activities of the Local Self Governments.</li></ul>
<b>Challenges</b>	<ul style="list-style-type: none"><li>• Upliftment of students from marginalized sections of the society to the national standards.</li><li>• Inspiring students, especially of rural background to aim high is a challenge.</li><li>• Sports students.</li><li>• Lack of exposure of students to business companies.</li></ul>
<b>Future plans</b>	<ul style="list-style-type: none"><li>• To start M. Phil. in Economics.</li><li>• To start an additional M.A. course in International Financial System.</li><li>• Offering exposure to business field/banking systems.</li><li>• Organizing National level seminars.</li></ul>



## Evaluative Report - Department of Commerce

1	Name of the department	Commerce		
2	Year of Establishment	1956		
3	Names of Programmes /Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.)	UG – B.Com.		
		PG – M.Com.		
		Research Programme - Nil		
4	Names of Interdisciplinary courses and departments involved	Name of Course	Departments Involved	
		Open Programme: Basic Accounting	All Departments	
		Add on Course:	Nil	
		Any other	Nil	
5	Annual/ Semester/choice based credit system(programme wise)	Choice Based Credit & Semester System (CCSS) for UG & PG		
6	Participation of the department in the courses offered by other departments	Nil		
7	Courses in collaboration with other Universities, industries, foreign institutions	Nil		
8	Details of courses/programmes discontinued (if any) with reasons	Nil		
9	Number of Teaching posts		Sanctioned	Filled
		Professors	Nil	Nil
		Associate Professors	3	3
		Assistant Professors	5	5
		Guest Lecturers	12	12

10	Faculty Profile					
Name	Qualification	Designation	Specialization	Experience in years	Ph.D. Students guided	
Mr. K.A. Davis	M.Com., PGDCA	Associate Professor, HOD	Financial Management	32	Nil	
Dr. P.L. George	M.Com., Ph.D., PGDCA	Associate Professor	Financial Management	30	Nil	
Mr. K.O. Francis	M.Com., M.Phil., LLB, PGDCA,	Associate Professor	Financial Management	28	Nil	
Mr. P.A. Varghese	M.Com., M.B.A, M.Phil.	Assistant Professor	Financial Management	6	Nil	
Ms. Josheena Jose	M.Com., B.Ed., M.B.A	Assistant Professor	Financial Management	4	Nil	
Ms. Shine Paul	M.Com.	Assistant Professor	Financial Management	3	Nil	
Mr. Tom Jacob	M.Com., M.Phil.	Assistant Professor	Marketing Management	3	Nil	
Mr. Arun Balakrishnan	M.Com., M.Phil.	Assistant Professor	Financial Management	1	Nil	



M.B.					
Mr. C.L. Baby John	M. Com., M.Phil.	Associate Professor (Retire) Guest Lecturer	Finance, Marketing	37	Nil
Mr. K.J. Joseph	M.Com.	Associate Professor (Retired) Guest Lecturer	Finance	35	Nil
Ms. Siji Paul V.	M.Com.	Guest Lecturer	Finance	5	Nil
Ms. Shiny A.O.	M.Com., MBA, B.Ed.	Guest Lecturer	Finance	3	Nil
Ms. Sandya V.	M.Com., B.Ed.	Guest Lecturer	Finance	3	Nil
Ms. Prassy Viswambharan	M.Com.	Guest Lecturer	Finance	2	Nil
Ms. Smitha Antony	M.Com.	Guest Lecturer	Finance	1	Nil
Ms. Teena Thomas	M.Com, M.Phil., B.Ed.,	Guest Lecturer	Finance	1	Nil
Ms. Suja Warriar	M.Com., B.Ed.	Guest Lecturer	Finance	1	Nil
Mr. Rahmesh K.R.	M.Com, MBA	Guest Lecturer	Finance	1	Nil
Mr. Alnishal P.N.	M.Com.	Guest Lecturer	Finance	1	Nil
Ms. Ancy Antony	M.Com.	Guest Lecturer	Finance	1	Nil
11	List of Senior Visiting Faculty:			Nil	

12	Percentage of lectures delivered and practical classes engaged by guest faculty (B.Com. Programme Self- financing)	Year	Core	Complementary	PG
		2010-11	100	100	Nil
		2011-12	100	100	Nil
		2012-13	100	100	Nil
	Percentage of lectures delivered and practical classes engaged by guest faculty (Aided Programme)	2013-14	100	100	Nil
		2010-11	Nil	Nil	Nil
		2011-12	Nil	Nil	Nil
		2012-13	Nil	Nil	Nil
13	Student Teacher Ratio (programme wise)	Year	Core	Complementary	PG
		2013-14	30:1	60:1	4:1
14	Number of academic support staff (technical) and administrative staff			Sanctioned	Filled
		Academic support Staff		Nil	Nil
		Administrative Staff		Nil	Nil



15		Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ MPhil/PG		
Name		Qualification		
Mr. K.A. Davis		M.Com., PGDCA		
Dr. P.L. George		M.Com. , PGDCA, Ph.D.		
Mr. K.O. Francis		M.Com.,PGDCA,M.Phil., LLB.		
Mr. P.A. Varghese		M.Com., MBA,M.Phil.		
Ms. Josheena Jose		M.Com., B.Ed., MBA.		
Ms. Shine Paul		M.Com.		
Mr. Tom Jacob		M.Com., M.Phil.		
Mr. Arun Balakrishnan M.B.		M.Com., M.Phil.		
Mr. C.L. Baby John		M.Com., M.Phil.		
Mr. K.J. Joseph		M.Com.		
Ms. Siji Paul V.		M.Com.		
Ms. Shiny A.O.		M.Com., MBA, B.Ed.		
Ms. Sandya V.		M.Com., B.Ed.		
Ms.Prassy Viswambharan		M.Com.		
Ms. Smitha Antony		M.Com.		
Ms. Teena Thomas		M.Com., M.Phil., B.Ed.		
Ms. Suja Warriar		M.Com., B.Ed.		
Mr. Rahmesh K.R.		M.Com., MBA.		
Mr. Alnishal P.N.		M.Com.		
Ms. Ancy Antony		M.Com.		
16	Number of faculty with on going projects from a) National b) International funding agencies and grants received:	Name of Principal Investigator	Details of Grant	
		Mr. Tom Jacob	Funding Agency	Grant received
			UGC	Rs. 55,000
17	Departmental projects funded by DST-FIST; UGC, DBT, ICSSR etc. and total grants received			Nil
18	Research Centre/facility recognized by the University			Nil

19		Publications Details										
A - Publication per faculty (B+C+D+G); B - Number of papers published in peer reviewed journals (national / international) by faculty; C - Number of publications listed in International Database/Citation Index; D - Books with ISBN/ISSN or Chapter in Books; E - Books Edited; F – Sessions Chaired; G - Publications in the proceedings of Seminars/Conferences; H- SNIP; I - SJR; J- Impact Factor; K-h index												
Name of faculty		A	B	C	D	E	F	G	H	I	J	K
Ms. Josheena Jose		10	5	-	3	-	-	2	-	-	-	-
Ms. Shine Paul		6	-	-	5	-	-	1	-	-	-	-
Mr. Tom Jacob		5	5	-	-	-	-	-	-	-	-	-
Mr. Arun Balakrishnan M.B.		17	5	-	-	1	1	11	-	-	-	-
Ms. Siji Paul V.		1	1	-	-	-	-	-	-	-	-	-
Ms.Prassy Viswambharan		8	8	-	-	-	-	-	-	-	-	-
<b>Total</b>		<b>47</b>	<b>24</b>	<b>-</b>	<b>8</b>	<b>1</b>	<b>1</b>	<b>14</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>

Paper Publications / Presentations by the students	
Publications by Students	13
Presentations by Students	14





Dr. B.V. Sasikumar	Reader, Dept. of Malayalam, Kerala university	Invited Talk on Contemporary Malayalam poetry
Mr. Viswaprabha	Wiki activist	Colloquium on Malayalam Wikipedia movement
Mr. Varghes Antony	Eminent Malayalam poet	Face to face programme

25	Seminar/Conference/ Workshops organized and the source of funding	Nil
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26	<b>Student Profile programme/course wise</b>					
Year	Name of the Course/programme	Applications received	Selected	Enrolled		Pass %
				M	F	
2013-14	UG	84	40	27	13	Ongoing

27	<b>Diversity of Students</b>			
Year	Name of the Course/programme	% of students from the state	% of students from other states	% of students from abroad
2012-13	UG	100	Nil	Nil
2013-14	UG	100	Nil	Nil

28	How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defence services, etc.	NA
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29	Student Progression	NA (1 <sup>st</sup> batch started in 2012)
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30	<b>Details of Infrastructural facilities</b>	
a) Library	6,636 Books and 1,442 Reference Books	
b) Internet Facilities for staff and students	Yes, for staff only	
c) Class room with ICT facility	Nil	
d) Laboratories	NA	

31	Number of students receiving financial assistance from college, university, Government or other agencies			
Year	College	University	Government	Others
	No. of Students	No. of Students	No. of Students	No. of Students
2012-13	6	13	Nil	Nil
2013-14	8	12	Nil	Nil

32	<b>Details on student enrichment programmes (special lectures / workshops / seminar) with external experts</b>		
Year	Programme	Resource person	Topic delivered
2014-15	Invited Talk	Dr. B.V. Sasikumar, Reader, Dept. of Malayalam, University of Kerala	Contemporary Malayalam poetry
	Demonstration about Koothu performance and Invited Talk	Dr. Rajan Nambiar	Classical arts of Kerala
	One day colloquium	Mr. Viswaprabha, Wiki activist	Malayalam Wikipedia movement



20	<b>Area of Consultancy and income generated</b>	
	Consultancy	Income generated
	<ul style="list-style-type: none"> <li>Income tax consultancy services to the college as well as teaching faculty.</li> <li>Consultancy services on investment in stock market to student community.</li> </ul>	Nil

21	<b>Faculty as members in National Committees, International Committees etc</b>		
	Faculty as members in	Name of the faculty	Name of the committee
	National Committees	Nil	Nil
	International Committees	Nil	Nil
	Editorial Boards	Mr. K.A. Davis	Research Journal for Commerce and Development Studies
		Mr. K.O. Francis	Research Journal for Commerce and Development Studies

22	<b>Student Projects</b>	
	Percentage of students who have done in-house projects including inter departmental/programme	27
	Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/Industry/other agencies	73

23	<b>Awards Recognitions received by faculty and students</b>		
	Name	Student/Faculty	Awards/ Recognitions received
	Ms. Vidya Asokan	Student	1 <sup>st</sup> Rank in University of Calicut Examinations, 2010.
	Ms. Swathy C.S Ms. Swathy Krishna	Students	Top scorers in University of Calicut Examinations, 2012.

24	<b>List of eminent academicians and scientists/ visitors to the department</b>	
	Name	Designation
	Dr. Dileep Kumar	V.C., Sanskrit University, Kalady
	Mr. Sachin Menon	KPMG Executive Director, Mumbai
	Mr. Mathew Jose	CEO, Paperman Pvt. Ltd., Chennai
	Dr. K.G. Jose	Director, Rajagiri Business School
	Dr. Vasantha Kumari P.	Associate Professor, World Bank Consultant
	Mr. Sankara Narayanan	Finance Manager, KSE Ltd.
	Rev. Dr. Paul Achandy CMI	Ex- Director of Business Administration, Christ University
	Mr. Sandeep G. Kutty	Auditor, KPMG Ltd
	Ms. Krithika K. Raj	Melam Group
	Dr. Pavithran	Ex-Dean, Faculty of Commerce, CUSAT
	Dr. V.M. Manoharan	Ex-Professor, Retd. D.D. of Collegiate Education, Thrissur
	Mr. A.T. Mathew	Professor, Malaysia
	Mr. Ben Mathew Varkey	Deputy Commissioner, Income Tax, Indian Revenue Service, Kozhikode

25	<b>Seminar/Conference/ Workshops organized and the source of funding</b>	
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Seminar/Conference/ Workshop	International, National/others	Year	Source of Funding
Innovations in Micro finance	State	2010-11	Department Fund
Workshop on Taxation	State	2011-12	Department Fund
Green Business: Emerging Trends, Opportunities & Challenges.	National	2012-13	Department Fund

26	<b>Student Profile programme/course wise</b>					
Year	Name of the Course/programme	Applications received	Selected	Enrolled		Pass %
				M	F	
2009-10	UG	2112	120	20	40	90
	PG	156	20	2	18	89.5
2010-11	UG	1980	120	23	37	91.2
	PG	164	20	2	18	73.3
2011-12	UG	2010	120	25	35	94.8
	PG	CAP	20	2	18	100
2012-13	UG	2013	120	27	33	91.3
	PG	178	20	-	20	100
2013-14	UG	CAP	180	28	32	85.22
	PG	168	20	-	20	100

27	<b>Diversity of Students</b>			
Year	Name of the Course/programme	% of students from the state	% of students from other states	% of students from abroad
2009-10	UG	95	5	-
	PG	100	-	-
2010-11	UG	100	-	-
	PG	100	-	-
2011-12	UG	100	-	-
	PG	100	-	-
2012-13	UG	98.3	1.7	-
	PG	100	-	-
2013-14	UG	100	-	-
	PG	100	-	-

28	<b>How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defence services, etc.</b>		
Year	Examinations passed	No. of students	
2010	NET	3	
2011	NET	5	
	JRF	5	
2012	NET	6	
	JRF	1	
2013	NET	2	
2014	NET	3	

29	<b>Student Progression</b>				
Student Progression	No. of students				
	2009-10	2010-11	2011-12	2012-13	2013-14



UG to PG	35	36	40	42	45
PG to M.Phil.	1	-	-	-	-
PG to Ph.D.	-	3	-	-	-
Employed Campus selection	-	-	6	13	16
Other than campus recruitment	4	5	10	2	2

30	<b>Details of Infrastructural facilities</b>				
a) Library	4,969 books in the general Library, Journals - 3				
b) Internet Facilities for staff and students	Yes, for staff and PG students				
c) Class room with ICT facility	2 Class rooms				
d) Laboratories	NA				

31	<b>Number of students receiving financial assistance from college, university, government or other agencies</b>			
Year	College	University	Government	Others
	No. of Students	No. of Students	No. of Students	No. of Students
2010-11	Nil	Nil	111	Nil
2011-12	Nil	Nil	109	Nil
2012-13	Nil	Nil	116	Nil
2013-14	Nil	Nil	126	Nil

32	<b>Details on student enrichment programmes (special lectures / workshops / seminar) with external experts</b>		
Year	Programme	Resource person	Topic delivered
2010-11	State Level Seminar	Sri. George Thomas, ESAF micro finance and investment pvt. Ltd, Thrissur.	Innovations in Micro Finance
		Mrs. Tannie Thomas District Coordinator , Kudumbasree projects, Ernakulam.	Innovations in Micro Finance
2012-13	Workshop	Mr. Sony C.L., LLB, FCA, DISA(ICAI)	Workshop on Taxation
2013-14	National Conference	Mr. Mathew Jose (CEO of Paperman Pvt. Ltd.)	Green Business: Emerging Trends, Opportunities & Challenges.
		Rev. Dr. Paul Achandy (Ex-Director of Business management, Christ University, Bangalore)	Green Business: Emerging Trends, Opportunities & Challenges.

33	<b>Teaching methods adopted to improve student learning</b>
<ul style="list-style-type: none"> <li>• Lectures and Power Point Presentations</li> <li>• Test Papers and Quiz programmes</li> <li>• Seminars and Debates</li> <li>• Assignments</li> <li>• Group Discussions</li> </ul>	

34	<b>Participation in Institutional Social Responsibility (ISR) and Extension activities</b>
<ul style="list-style-type: none"> <li>• Our students are often taken to Santhwana Sadanam (Orphanage), Pratheeksha Bhavan (Home for mentally Challenged students) and many other charitable institutions in the</li> </ul>	



<p>state, so that they can interact with these people and create a humane feeling.</p> <ul style="list-style-type: none"> <li>• Our students actively participate in CSA &amp; NSS, who go and work among the downtrodden and the marginalised.</li> <li>• The 2014 B.Com batch students coordinated and contributed 1,20,000/- to a poor family for meeting their medical expenses.</li> <li>• A student named Mr. Vineeth M.S of 2<sup>nd</sup> B.Com was given some money to meet his medical expenses when he got injured when he met with a bike accident.</li> </ul> <p><b>Mr. K.O. Francis</b></p> <ul style="list-style-type: none"> <li>• Senate Member, University of Calicut</li> <li>• Chairman, Commerce U.G. Board of Studies, University of Calicut.</li> <li>• Member, Commerce P.G. Board of Studies, University of Calicut.</li> <li>• Member, Faculty of Commerce and Management Studies, University of Calicut.</li> <li>• Member, Commerce Association of Kerala</li> <li>• Member, Dr. S. Radhakrishnan Teachers Welfare Association, Mumbai.</li> </ul> <p><b>Mr. K.A. Davis</b></p> <ul style="list-style-type: none"> <li>• Chairman, U.G. Board of Examinations, University of Calicut.</li> <li>• Chairman, P.G. Board of Examinations, University of Calicut.</li> <li>• Vice Principal</li> </ul>
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35	<b>SWOC analysis of the department and future plans</b>	
<b>Strength</b>	<ul style="list-style-type: none"> <li>• A nice blend of experienced and young faculty. Of the 8 faculty members, one has Ph.D. degree and four are M.Phil. holders and five are in the completion stage of PhD.</li> <li>• Reputation as the Department securing highest campus placements and best results.</li> <li>• Good demand for the courses offered by the Department.</li> <li>• Many of the students are preparing for professional programmes especially CA, CMA, Civil Services and Bank exams.</li> <li>• High intake of students with more than 92% marks through one aided and three self-financing batches.</li> <li>• Many professional batches such as tax practices certified financial planners, etc. are offered to the students along with their regular courses.</li> <li>• A well-stocked library on Commerce and related topics.</li> <li>• Tie up with industries in the area enables students to secure project placements.</li> </ul>	
<b>Weakness</b>	<ul style="list-style-type: none"> <li>• As an affiliated College the Institution is not able to update the syllabus</li> <li>• Conduct of University exams and publications of results are always delayed.</li> <li>• Not a research Department.</li> </ul>	
<b>Opportunity</b>	<ul style="list-style-type: none"> <li>• The Department is gearing up to be a research centre</li> <li>• Six of the faculty members are pursuing for Ph.D.</li> <li>• A bunch of good students who can be guided to take up Chartered Accountancy, Civil Services, Banking and career as Financial Advisers etc.</li> <li>• As the students who are admitted here are of high percentage and caliber, they may be directed to go for higher studies in the sphere of Civil Services, Bank, Financial Services and CA.</li> <li>• Tie –up with industries.</li> <li>• Involvement in research activities by all the faculty.</li> </ul>	



<b>Challenges</b>	<ul style="list-style-type: none"><li>• To meet the challenges of the ever expanding technology</li><li>• To increase the publications in national and international journals by all the faculty.</li><li>• Maintain or improve the performance of the students when they complete the course and go from the college.</li></ul>
<b>Future plans</b>	<ul style="list-style-type: none"><li>• To elevate the Department as a Research Centre</li><li>• Seeking financial support for undertaking major and minor research projects</li><li>• To conduct academic meetings at international/national/state levels</li><li>• A number of invited talks by experts in various fields</li><li>• Socially desirable activities like village adoption, tuitions for the deserving, etc.</li><li>• Yearly industrial visits by P.G. students</li><li>• Entrepreneurial development activities in tie up with entrepreneurs and companies</li><li>• More MOUs with professional/ academic institutions</li></ul>



## Evaluative Report - Department of Mathematics

1	Name of the Department	Mathematics		
2	Year of Establishment	1963		
3	Names of Programmes /Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.)	UG –B.Sc. Mathematics (Core and complementary)		
		PG– M.Sc. Mathematics		
		Research Programme - Nil		
4	Names of Interdisciplinary courses and departments involved	Name of Course	Departments Involved	
		Open Programme: Mathematics for Social Science	All Departments	
		Add on Course: Web Designing	All Departments	
		Any other	Nil	
5	Annual/ Semester/choice based credit system(programme wise)	Choice Based Credit & Semester System (CCSS) for UG & PG		
6	Participation of the department in the courses offered by other departments	B.Sc. Physics (complementary) B.Sc. Chemistry (complementary) B.A. Economics (core) M.Sc. Environmental Science B.Sc. Computer Science (complementary) B.C.A. (core and complementary)		
7	Courses in collaboration with other Universities, industries, foreign institutions	Nil		
8	Details of courses/programmes discontinued (if any) with reasons	Self financing M.Sc. Mathematics (M.Sc. Mathematics converted to an aided course)		
9	Number of Teaching posts		Sanctioned	Filled
		Professors	Nil	Nil
		Associate Professors	1	1
		Assistant Professors	3	3
		Guest Lectures	4	4

10	Faculty Profile					
Name	Qualification	Designation	Specialization	Experience in years	Ph.D. Students guided	
Mr. N.J. Thomas	M.Sc.	Associate Professor, HOD	Real Analysis	28	Nil	
Ms. Tintumol Sunny	M.Sc., B.Ed.	Assistant Professor	Fuzzy Graphs	6	Nil	
Ms. Seena V. (on leave for FDP)	M.Sc., M.Phil., B.Ed.	Assistant Professor	Graph theory	6	Nil	
Mr. Shinto K.G.	M.Sc.	Assistant Professor	Fuzzy Optimization	4	Nil	
Ms. Jismi M.J.	M.Sc., M.Phil.	Guest Lecturer (FDP Substitute)	Algebra	1	Nil	



Ms. Anila N.A.	M.Sc., B.Ed.	Guest Lecturer	Graph Theory	2	Nil
Ms. Neethu K.	M. Sc.	Guest Lecturer	Analysis	1	Nil
Mr. Jomesh Jose	M.Sc. B.Ed.	Guest Lecturer	Analysis	1	Nil
Ms. Anu Jose	M.Sc.	Guest Lecturer	Analysis	1	Nil
11	List of Senior Visiting Faculty		Mrs. Annie Joseph M.Sc.		

12	Percentage of lectures delivered and practical classes engaged by guest faculty (Programme wise)	Year	Core	Complementary	PG
		2010-11	14.71	20.23	-
		2011-12	-	-	-
		2012-13	-	-	100 (PG- self)
		2013-14	29.73	100	100 (PG- self)
13	Student Teacher Ratio (programme wise)	Year	Core	Complementary	PG
		2013-14	20:1	20:1	4:1
14	Number of academic support staff (technical) and administrative staff			Sanctioned	Filled
		Academic support Staff		Nil	Nil
		Administrative Staff		Nil	Nil

15	<b>Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ MPhil/PG</b>	
	Name	Qualification
	Mr. N.J. Thomas	M.Sc.
	Ms. Tintumol Sunny	M.Sc., B.Ed.
	Ms. Seena V. (on leave for FDP)	M.Sc., M.Phil., B.Ed.
	Ms. Jismi M.J. (FDP Substitute)	M.Sc., M.Phil.
	Mr. Shinto K.G.	M.Sc.
	Ms. Anila N.A.	M.Sc., B.Ed.
	Ms. Neethu K.	M.Sc.
	Mr. Jomesh Jose	M.Sc., B.Ed.
	Ms. Anu Jose	M.Sc., B.Ed.

16	Number of faculty with ongoing projects from a) National b) International funding agencies and grants received	Nil
17	Departmental projects funded by DST-FIST; UGC, DBT, ICSSR, etc. and total grants received	Nil
18	Research Centre/facility recognized by the University	Nil

19	<b>Publications</b>
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A - Publication per faculty (B+C+D+G); B - Number of papers published in peer reviewed journals (national / international) by faculty; C - Number of publications listed in International Database/Citation Index; D - Books with ISBN/ISSN or Chapter in Books; E - Books Edited; F – Sessions Chaired; G - Publications in the proceedings of Seminars/Conferences; H- SNIP; I – SJR; J- Impact Factor; K-h index

Name of faculty	A	B	C	D	E	F	G	H	I	J	K
Mr. Shinto K. G.	4	2	-	-	-	-	2	-	-	-	-
<b>Total</b>	<b>4</b>	<b>2</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>2</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>

20	Area of Consultancy and income generated	Nil
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21 Faculty as members in National Committees, International Committees etc		
Faculty as members in	Name of the faculty	Name of the committee
National Committees	Mr. N.J. Thomas	• Life member, Kerala Mathematics Association (KMA)
	Ms. Tintumol Sunny	• Member, Kerala Mathematics Association (KMA)
	Mr. Shinto K.G.	• Member, Kerala Mathematics Association (KMA)

22 Student Projects	
Percentage of students who have done in-house projects including inter departmental/programme	UG - 100 PG- 100
Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/Industry/other agencies	Nil

23 Awards Recognitions received by faculty and students		
Name	Student/ Faculty	Awards/ Recognitions received
Ms. Silpa K.S	Student	B.Sc., 2013-14, 1 <sup>st</sup> Position, University of Calicut.

24 List of eminent academicians and scientists/ visitors to the department	
Name	Designation
Dr. K.T. Arasu	Professor, Wright State University, Ohio, USA
Dr. Charles Dominic	Assistant Professor, Department of Basic Sciences, Rajagiri School of Engineering and Technology, Cochin.
Dr. Sunoj S.M.	Assistant Professor, Department of Statistics, CUSAT
Dr. Vinod Kumar P. B.	Associate Professor, Department of Mathematics, Rajagiri College of Engineering
Dr. P.T. Ramachandran	Professor, Department of Mathematics, University of Calicut.
Mr. Anoop N. Nair	Assistant Professor, Department of Applied Science, College of Engineering, Perumon.
Mr. Edwin Tomson	Associate Professor, Department of Mathematics, St. Albert's College, Ernakulam.
Dr. Geetha K.V.	Head of the Department of Mathematics, St. Joseph's College, Irinjalakuda
Mr. Pramod Prabhu S.M.	Chartered accountant
Dr. Mangalambal N.R.	Head of the Department of Mathematics, St. Joseph's College, Irinjalakuda
Dr. Sunny Kuriakose	Principal, Baselios Poulouse II Cathalicosse College, Piravom



25	<b>Seminar/Conference/ Workshops organized and the source of funding</b>			
	Seminar/Conference/ Workshop	International, National/others	Year	Source of Funding
	One day Workshop for UG Students on Fractal Geometry.	Regional	2010-11	College Management
	One day seminar on Hadamard Matrices and Graph Theory.	National	2011-12	College Management
	3 day Seminar on Advanced Computational Techniques (ACT 2011)	National	2011-12	UGC

26	<b>Student Profile programme/course wise</b>						
	Year	Name of the Course/programme	Applications received	Selected	Enrolled		Pass Percentage
					M	F	
	2009-10	UG	837	48	15	33	72.9
	2010-11	UG	850	48	15	33	90.0
	2011-12	UG	848	48	10	38	74.28
	2012-13	UG	798	48	12	36	84.21
		PG	26	15	3	12	-
	2013-14	UG	CAP	48	10	38	81.58
		PG	30	15	4	11	84.62

27	<b>Diversity of Students</b>				
	Year	Name of the Course/programme	% of students from the state	% of students from other states	% of students from abroad
	2009-10	UG	97.91	2.08	Nil
	2010-11	UG	97.91	2.08	Nil
	2011-12	UG	97.91	2.08	Nil
	2012-13	UG	97.91	2.08	Nil
		PG	100	Nil	Nil
	2013-14	UG	97.91	2.08	Nil
		PG	100	Nil	Nil

28	How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defence services, etc.	NA
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29	<b>Student Progression</b>					
	Student Progression	No. of students				
		2009-10	2010-11	2011-12	2012-13	2013-14
	UG to PG	26	31	20	23	28
	PG to M.Phil.	NA (Department started M Sc Mathematics in the year 2012)				
	PG to Ph.D.					
	• Employed Campus selection	-	-	4	1	4
	• Other than campus recruitment	8	9	8	2	-

30	<b>Details of Infrastructural facilities</b>	
	a) Library	2,516 Mathematics books in College Library



b) Internet Facilities for staff and students	Wi-Fi Internet facility for staff members
c) Class room with ICT facility	Nil
d) Laboratories	1 Computer lab with 24 computers

31	<b>Number of students receiving financial assistance from college, university, government or other agencies</b>			
Year	College	University	Government	Others
	No. of Students	No. of Students	No. of Students	No. of Students
2010-11	-	-	49	-
2011-12	-	-	50	-
2012-13	-	-	46	-
2013-14	-	-	62	-

32	<b>Details on student enrichment programmes (special lectures / workshops / seminar) with external experts</b>		
Year	Programme	Resource person	Topic delivered
	Workshop	Dr. Vinod Kumar P. B. Department of Mathematics, Rajagiri College of Engineering.	Fractal Geometry
	Intercollegiate Quiz Competition	Dr. Vinod Kumar P. B. Department of Mathematics, Rajagiri College of Engineering.	Quiz Competition
2011-12	One day Seminar	Dr. K. T. Arasu, Wright State University, Ohio, U S A.	Hadamard Matrices
	One day Seminar	Dr. Charles Dominic, Assistant Professor, Department of Basic Sciences, Rajagiri School of Engineering and Technology, Cochin.	Introduction to Graph Theory
	Endowment Lecture	Mr. Shinoj K. M., Assistant Professor, Department of Mathematics, Devagiri College, Calicut.	Fundamentals of Abstract Algebra
	Endowment Lecture	Mr. Joju K.T., Associate Professor, Department of Mathematics, Prajyothi Nikethan College, Pudukkad.	Introduction to Real Analysis.
2012-13	Invited Talk	Dr. P. T. Ramachandran, Department of Mathematics, University of Calicut.	Kerala School of Mathematics
	Invited Talk	Prof. M. K. Chandran, Retired Head, Department of Mathematics, Christ College, Irinjalakuda.	Bhashayam Ganithavum
	Invited Talk	Mr. Anoop N. Nair, Assistant Professor, Department of Applied Science, College of Engineering, Perumon.	An Introduction to Stochastic Process and Queuing Theory
	Intercollegiate Quiz Competition	Mr. Edwin Tomson, Associate Professor, Department of Mathematics, St. Albert's College, Ernakulam.	Quiz Competition
	Invited Talk	Dr. Geetha K.V. HOD, Department of Mathematics, St. Joseph's College, Irinjalakuda.	Contributions of Indians to Mathematics



2013-14	Invited Talk	Prof. M. K. Chandran, Retired Head, Department of Mathematics, Christ College, Irinjalakuda.	Binary Magic
	Invited Talk	Mr. Pramod Prabhu S.M. Chartered Accountant.	Introduction to Chartered Accountancy
	Invited Talk	Mr. Albert Antony, Assistant Professor, Department of Mathematics, P.M.G. College Chalakudy.	Applications of Density Theorem
	Invited Talk	Dr. Mangalambal N.R., HOD, Department of Mathematics, St. Joseph's College, Irinjalakuda.	Differential Geometry
	Intercollegiate Quiz Competition	Dr. Sunny Kuriakose Principal, Baselios Poulouse II Catholicose College, Piravom.	Quiz Competition

33	<b>Teaching methods adopted to improve student learning</b>
<ul style="list-style-type: none"> <li>• Tutorial system.</li> <li>• Classes with power point presentations.</li> <li>• Periodical evaluation.</li> <li>• Seminars and assignments on different topics.</li> <li>• Lectures by experts.</li> <li>• Participation in seminars/workshops conducted by other institutions.</li> </ul>	

34	<b>Participation in Institutional Social Responsibility (ISR) and Extension activities</b>
<ul style="list-style-type: none"> <li>• II B.Sc. Mathematics students 2014-15 visited “Pratheeksha Bhavan”, a School of mentally challenged students and celebrated New Year 2015 with them.</li> <li>I B.Sc. Mathematics students 2014-15 visited an old age home</li> </ul> <p><b>Ms. Tintumol Sunny</b></p> <ul style="list-style-type: none"> <li>• Coordinator of Add-on course Web Designing.</li> </ul> <p><b>Mr. Shinto K. G.</b></p> <ul style="list-style-type: none"> <li>• Timetable coordinator of the College.</li> <li>• Judge in State School Science Fest Organized by Government of Kerala.</li> </ul>	

35	<b>SWOC analysis of the department and future plans</b>
<b>Strength</b>	<ul style="list-style-type: none"> <li>• Dedicated young faculty under the mentorship of senior and experienced faculty.</li> <li>• Comparatively better students.</li> <li>• Newly introduced M.Sc. Programme.</li> <li>• Willingness of the Department to prepare the students for the competitive examinations.</li> <li>• Rapport with experts to arrange different lectures.</li> <li>• Willingness of the faculty to arrange special classes.</li> <li>• Every year some of the students get admission in national level institutions by securing high ranks in the entrance examination.</li> <li>• Excellent pass percentage including ranks in University examination.</li> <li>• Motivating students to participate in various curricular and extracurricular activities.</li> <li>• Three faculty members are pursuing Ph.D., one is under FDP.</li> </ul>



<b>Weakness</b>	<ul style="list-style-type: none"><li>• No permanent faculty for the PG Programme.</li><li>• Could not organize national level workshops / seminars after introducing M.Sc. programme in Mathematics.</li><li>• Poor tracking mechanism for assessment of placements of alumni members of the Department.</li><li>• Mostly girls get admissions to the UG/PG programmes as they secure higher marks in the qualifying examination. However, only few of them pursue higher studies.</li></ul>
<b>Opportunity</b>	<ul style="list-style-type: none"><li>• Opportunity to uplift the Department to a Research centre.</li><li>• Opportunity to promote activities that inspire UG students to join in PG programmes and to create a research culture among the students.</li><li>• Opportunity contribute more in curriculum formulation.</li></ul>
<b>Challenges</b>	<ul style="list-style-type: none"><li>• Most of the students come from rural background. Train them to acquire required soft skills is a challenge.</li><li>• Elevate the M.Sc. students to national standards.</li><li>• Teaching Mathematics to students of different cores.</li></ul>
<b>Future plans</b>	<ul style="list-style-type: none"><li>• Acquiring Ph.D. degree by all the faculty and making the Department as a Research Centre.</li><li>• Attracting external funding through major/minor research projects and strengthening research.</li><li>• To conduct National level programmes (workshops/seminars).</li><li>• To conduct programmes among school children to make Mathematics a fascinating and enjoyable subject.</li></ul>



## Evaluative Report - Department of English

1	Name of the department	English		
2	Year of Establishment	1956		
3	Names of Programmes /Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.)	UG –B.A. Functional English (Aided) B.A. Literature (Self –Financing started in 2014)		
		PG – M.A. English Language and Literature (Self –Financing started in 2013)		
		Research Programme - Nil		
4	Names of Interdisciplinary courses and departments involved	Name of Course	Departments Involved	
		Open Programme: Personality Development	All Departments	
		Add on course: Communicative English and Journalism	All Departments	
		Any other: English B.A.,B.Sc.,B.Com.	All Departments	
5	Annual/ Semester/choice based credit system(programme wise)	Choice Based Credit & Semester System (CCSS) for UG & PG		
6	Participation of the department in the courses offered by other departments	Nil		
7	Courses in collaboration with other Universities, industries, foreign institutions, etc.	Nil		
8	Details of courses/programmes discontinued (if any) with reasons	Nil		
9	Number of Teaching posts		Sanctioned	Filled
		Professors	Nil	Nil
		Associate Professors	5	5
		Assistant Professors	2	2
		Guest Lecturers	9	9

10 Faculty Profile					
Name	Qualification	Designation	Specialization	Experience in years	Ph.D. Students guided
Mr.Sathyan Joseph Kolengadan	M.A.	Associate Professor, HOD	-	27	Nil
Mr.P.D.Tomy	M.A., B.Ed.	Associate Professor	American literature, Commonwealth Literature and Indian writing in English	23	Nil
Ms. Pallikattil Mary Pathrose	M.A.,B.Ed.	Associate Professor	Linguistics and American Literature	22	Nil
Dr. A.J. Thankachan	M.A., B.Ed., M.B.A.(HR), Ph.D.	Associate Professor	American Literature, English Literary Theories and Human Resource Management	21	Nil
Dr. K.J.	M.A., B.Ed.,	Associate	ELT and ICT	19	Nil



Vargheese	PGDJ, PGDELT, Ph.D.	Professor			
Mr.Shinto V.P.	M.A.	Assistant Professor	-	2	Nil
Ms. Chitra Sebastian	M.A., M.Phil.	Assistant Professor	-	2	Nil
Ms. Reshmi K.S.	M.A., M.Phil.	Guest Lecturer	English Language Teaching	2	Nil
Dr. Syam Sudhakar	M.A., M.Phil., Ph.D.	Guest Lecturer	Beat Literature, Performance, Masculinity, Dravidian Aesthetics and Creative Writing	2	Nil
Mr. Anand T. Joy	M.A.	Guest Lecturer	-	2	Nil
Ms. Amrutha N.	M.A., B.Ed.	Guest Lecturer	-	2	Nil
Ms. Aparna N.	M.A., B.Ed.	Guest Lecturer	-	1	Nil
Ms. Mercy P.K.	M.A., B.Ed.	HSE (Retd.) Guest Lecturer	-	30	Nil
Ms. Rakhi Ramachandran	M.A.	Guest Lecturer	-	3	Nil
Ms. Abhini P.K.	MCJ	Guest Lecturer	-	1	Nil
11	List of Senior Visiting Faculty		<ul style="list-style-type: none"> <li>• Dr. Radha P.S. M.A., Ph.D.</li> <li>• Dr. Rani Paul Ukken M.A., M.Phil., Ph.D.</li> </ul>		

12	Percentage of lectures delivered and practical classes engaged by guest faculty (Programme wise) B.A. Functional English (Aided)	Year	Core	Complementary	PG
		2010-11	Nil	Nil	Nil
		2011-12	Nil	Nil	Nil
		2012-13	Nil	Nil	Nil
	B.A. Literature (Self –Financing) M.A. English Language and Literature (Self –Financing)	2010-11	100	100	100
		2011-12	100	100	100
		2012-13	100	100	100
		2013-14	100	100	100
13	Student Teacher Ratio (programme wise)	Year	Core	Complementary	PG
		2013-14	40:1	40:1	4:1
14	Number of academic support staff (technical) and administrative staff			Sanctioned	Filled
		Academic support Staff		Nil	Nil
		Administrative Staff		Nil	Nil

15	<b>Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ M.Phil/PG</b>	
	Name	Qualification
	Mr. Sathyan Joseph Kolengaden	M.A.



Mr. P.D.Tomy	M.A., B.Ed.
Ms. Pallikattil Mary Pathrose	M.A., B.Ed.
Dr. A.J. Thankachan	M.A., B.Ed., M.B.A.(HR), Ph.D.
Dr. K.J. Varghese	M.A., B.Ed., PGDJ, PGDELT, Ph.D.
Mr. Shinto V.P.	M.A.
Ms. Chitra Sebastian	M.A., M. Phil.
Ms. Reshmi K.S.	M.A., M. Phil.
Dr. Syam Sudhakar	M.A., M. Phil., Ph.D.
Mr. Anand T. Joy	M.A.
Ms. Amrutha N.	M.A., B.Ed.
Ms. Aparna N.	M.A., B.Ed.
Ms. Mercy P.K.	M.A., B.Ed.
Ms. Rakhi Ramachandran	M.A.
Ms. Abhini P.K.	MCJ

16	Number of faculty with ongoing projects from a) National b) International funding agencies and grants received	Nil
17	Departmental projects funded by DST-FIST; UGC, DBT, ICSSR, etc.	Nil
18	Research Centre/facility recognized by the University	Nil

<b>19</b>	<b>Publications Details</b>										
A - Publication per faculty (B+C+D+G); B - Number of papers published in peer reviewed journals (national / international) by faculty; C - Number of publications listed in International Database/Citation Index; D - Books with ISBN/ISSN or Chapter in Books; E - Books Edited; F – Sessions Chaired/Resource Person; G - Publications in the proceedings of Seminars/Conferences; H- SNIP; I – SJR; J- Impact Factor; K-h index											
Name of faculty	A	B	C	D	E	F	G	H	I	J	K
Mr. Tomy P.D.	-	-	-	-	-	1	-	-	-	-	-
Dr. A.J. Thankachan	-	-	-	-	-	1	-	-	-	-	-
Dr. K.J. Vargheese	4	4	-	-	-	32	-	-	-	-	-
Ms. Chitra Sebastian	1	-	-	-	-	-	1	-	-	-	-
Dr. Radha P.S.	-	-	-	-	-	3	-	-	-	-	-
Dr. Syam Sudhakar	10	3	-	6	-	4	1	-	-	-	-
		-	-	-	-	-	-	-	-	-	-
<b>Total</b>	<b>15</b>	<b>7</b>	<b>-</b>	<b>6</b>	<b>-</b>	<b>41</b>	<b>2</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>

<b>Paper Presentation by the teachers</b>				
Name of faculty	International	National	Regional/State	Total
Dr. K.J. Vargheese	10	7	-	17
Ms. Chitra Sebastian	1	3	-	4
Ms. Reshmi K.S.	-	3	-	3
<b>Total</b>	<b>11</b>	<b>13</b>	<b>-</b>	<b>24</b>
Publications/Presentations by Students				Nil

<b>20</b>	<b>Area of Consultancy and income generated</b>	
Name of Faculty	Consultancy	Income generated
<b>Dr. K.J. Vargheese</b>		Nil
<ul style="list-style-type: none"> <li>Content Development for Language Laboratory Software for Orell</li> </ul>		





Technosystems	
• Condora Publications – Consultant in Workshop Designing	

21	<b>Faculty as members in National Committees, International Committees etc</b>		
	Faculty as members in	Name of the faculty	Name of the committee
	National Committees	-	-
	International Committees	Dr. Syam Sudhakar	<ul style="list-style-type: none"> <li>• Programme Director, Centre for Performance Research and Cultural Studies in South Asia</li> <li>• Member, Forum of Contemporary Theories, Baroda</li> <li>• Member, European Beat studies, New York</li> <li>• Poetry Advisor, Sidney School of Arts and Humanities</li> </ul>

22	<b>Student Projects</b>	
	Percentage of students who have done in-house projects including inter departmental/programme	100
	Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/Industry/other agencies	Nil

23	<b>Awards Recognitions received by faculty and students</b>		
	Name	Student/Faculty	Awards/ Recognitions received
	Dr. K.J. Varghese	Faculty	Professional Excellence Award by Junior Chamber International
	Ms. Chitra Sebastian	Faculty	Selected as a participant of the “Youth Exchange Project with Asia- Oceania and North America (Kizuna Bond) Project from 3 <sup>rd</sup> to 13 <sup>th</sup> of March 2014 in Tokyo and Fukushima in Japan conducted by Japan International Cooperation Center.

24	<b>List of eminent academicians and scientists / visitors to the department</b>	
	Name	Designation
	Mr. T.P. Rajeevan	Author & Script writer
	Ms. Rukhiya Rajathi (Salma)	Tamil writer and Social activist, Chennai
	Mr. P. Krishnanunni	Senior Lecturer, Deshbandhu College, University of Delhi

25	<b>Seminar/Conference/ Workshops organized and the source of funding</b>			
	Seminar/Conference/ Workshop	International, National/others	Year	Source of Funding
	Seminar: Gender Politics and Literature	others	2013-14	Management
	Poetry workshop	others	2013-14	Management
	Seminar: Introducing Gabriel Garcia Marquez	others	2014-15	Management
	Poetry workshop	others	2014-15	Management

26	<b>Student Profile programme/course wise</b>					
	Year	Name of the Course/programme	Applications Received	Selected	Enrolled M    F	Pass %
	2009-10	UG	120	39	13    26	95



2010-11	UG	140	39	8	31	95
2011-12	UG	128	32	6	26	90.6
2012-13	UG	112	36	9	27	88.88
2013-14	UG	CAP	38	8	30	80.9
	PG	40	34	9	25	Ongoing

27	<b>Diversity of Students</b>			
Year	Name of the Course/programme	% of students from the state	% of students from other states	% of students from abroad
2009-10	UG	100	-	-
2010-11	UG	97.44	2.56	-
2011-12	UG	100	-	-
2012-13	UG	100	-	-
2013-14	UG	100	-	-
	PG	100	-	-

28	How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defence services, etc.	NA
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29	<b>Student Progression</b>				
Student Progression	No. of students				
	2009-10	2010-11	2011-12	2012-13	2013-14
UG to PG	-	12	13	25	24
PG to M.Phil.	-	-	-	-	-
PG to Ph.D.	-	-	-	-	-
• Employed Campus selection	-	-	3	2	1
• Other than campus recruitment	-	7	3	1	-

30	<b>Details of Infrastructural facilities</b>	
a) Library	10,864 books and 2 Journals in College Library.	
b) Internet Facilities for staff and students	Internet Facilities for the staff in the Department and for the students in the college library.	
c) Class room with ICT facility	1	
d) Laboratories	Digital Language lab with 21 Computers	

31	<b>Number of students receiving financial assistance from College, University, Government or other agencies</b>				
Year	Course	College No. of Students	University No. of Students	Government No. of Students	Others No. of Students
2010-11	UG	-	-	-	-
2011-12	UG	-	-	-	-
2012-13	UG	-	-	-	-
2013-14	UG	-	-	-	-
	PG	-	-	2	1

32	<b>Details on student enrichment programmes (special lectures / workshops / seminar) with external experts</b>		
Year	Programme	Resource person	Topic delivered



2011-12	Theatre Arts, Training and Performance (2 days)	Mr. Renju Chandran, Research Scholar, Pondicherry University	Drama – Theory and Practice –Acting, Direction, Script writing etc.)
2012-13	Theatre Workshop (3days)	Mr. Renju Chandran, Research Scholar, Pondicherry University	Practical workshop on theatre training (Direction, Acting)
2013-14	Lecture on Gender Politics and Literature	Salma, Tamil writer and social activist	Gender Politics and Literature
2014-15	Invited Talk	Mr. P. Krishnanunni, Senior Lecturer in English, Deshbandhu College, University of Delhi	Introducing Gabriel Garcia Marquez

33	<b>Teaching methods adopted to improve student learning</b>
<ul style="list-style-type: none"> <li>• Language laboratory</li> <li>• Audio visual methods</li> <li>• Power Point presentation.</li> <li>• Movies of the prescribed texts are screened</li> </ul>	

34	<b>Participation in Institutional Social Responsibility (ISR) and Extension activities</b>
Name of Faculty	Activities
<p><b>Mr. P.D.Tomy</b></p> <ul style="list-style-type: none"> <li>• Returning Officer of the College</li> </ul> <p><b>Ms. Pallikattil Mary Pathrose</b></p> <ul style="list-style-type: none"> <li>• Anti Ragging Committee Convener of the College</li> </ul> <p><b>Dr. A.J. Thankachan</b></p> <ul style="list-style-type: none"> <li>• Member – Board of Studies – Functional English - University of Calicut ( March 2010 – March 2013)</li> <li>• Member – Interview Board – Kerala Public Service Commission</li> <li>• Member – Panel of Question paper Setters – Kerala Public Service Commission</li> <li>• Member – Panel of Question paper Setters –University of Kannur</li> <li>• Convener –Discipline Committee</li> </ul> <p><b>Dr. K.J. Vargheese</b></p> <ul style="list-style-type: none"> <li>• Member Doctoral Committee, Sree Sankaracharya University of Sanskrit, Kalady</li> <li>• Member Doctoral Committee, Bharathiyar University</li> <li>• Member, Panel of Examiners Sree Sankaracharya University of Sanskrit, Kalady</li> <li>• Member, Panel of Examiners, St. Thomas College (Autonomous), Thrissur</li> <li>• Member, PG Syllabus Framing Committee, Sree Sankaracharya University of Sanskrit, Kalady</li> <li>• Member, Academic Monitoring Committee of M.A. English with specialization in CALT, Sree Sankaracharya University of Sanskrit, Kalady</li> <li>• Chief Editor, College News letter</li> <li>• Film Club Co-ordinator</li> <li>• Adventure Club co-ordinator</li> <li>• Coordinator of UGC Add on course in Communicative English and Journalism</li> </ul> <p><b>Mr. Shinto V.P.</b></p> <ul style="list-style-type: none"> <li>• Course Director, Additional Skill Acquisition Programme (an initiative of Higher Education Department, State Government of Kerala)</li> </ul>	



35	<b>SWOC analysis of the department and future plans</b>
<b>Strength</b>	<ul style="list-style-type: none"><li>• Language laboratory training.</li><li>• Job oriented degree course.</li><li>• Endowments and extension lectures.</li></ul>
<b>Weakness</b>	<ul style="list-style-type: none"><li>• No postgraduate programme in the aided sector.</li></ul>
<b>Opportunity</b>	<ul style="list-style-type: none"><li>• Placements for students.</li><li>• Internship programme for the willing students.</li><li>• Field trips to AIR, TV Studios and Press.</li></ul>
<b>Challenges</b>	<ul style="list-style-type: none"><li>• The department has to encourage research-oriented programme.</li><li>• Devise mechanism to meet the poor linguistic competence of the students.</li></ul>
<b>Future plans</b>	<ul style="list-style-type: none"><li>• To elevate the Department to a Research Centre.</li><li>• To conduct a National Seminar every year.</li></ul>



## Evaluative Report - Department of Statistics

1	Name of the department	Statistics		
2	Year of Establishment	1963		
3	Names of Programmes /Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.)	UG –Statistics (Complementary)		
		PG-M.Sc. Statistics (Self -Financing)		
		Research Programme - Nil		
4	Names of Interdisciplinary courses and departments involved	Name of Course	Departments Involved	
		Open Programme	Nil	
		Add on Course	Nil	
		Any Other: M.Sc. Environmental Sciences	Dept. of Geology & Environmental Science	
5	Annual/ Semester/choice based credit system(programme wise)	Choice Based Credit & Semester System (CCSS) for UG & PG		
6	Participation of the department in the courses offered by other departments	B.Sc. Mathematics (Complementary), B.Sc. Geology (Complementary), BCA, B.Sc. Psychology (Complementary), B.Sc. Computer Science (Complementary), M.A. Economics (Core), M.Sc. Environmental Sciences (Core).		
7	Courses in collaboration with other universities, industries, foreign institutions, etc.	Nil		
8	Details of courses/programmes discontinued (if any) with reasons	Nil		
9	Number of Teaching posts		Sanctioned	Filled
		Professors	Nil	Nil
		Associate Professors	1	1
		Assistant Professors	1	1
		Guest Lectures	3	3

10	<b>Faculty Profile</b>					
	Name	Qualification	Designation	Specialization	Experience in years	Ph.D. Students guided
	Dr. Davis Antony Mundassery	M. Sc, M. Phil., Ph.D.	Associate Professor, HOD	Distribution Theory	23	Nil
	Dr. Mariyamma K.D.	M. Sc, M. Phil., Ph.D.	Assistant Professor	Time Series	7	Nil
	Mr. Aneesh K.P.	M.Sc.	Guest Lecturer	Statistics	6	Nil
	Ms. Anjana A.G.	M.Sc.	Guest Lecturer	Statistics	1	Nil
	Ms. Megha C.M.	M.Sc., B.Ed.	Guest Lecturer	Statistics	4	Nil
11	List of Senior Visiting Faculty					Nil

12	Percentage of lectures	Year	Core	Complementary	PG
		2010-11	-	-	-



	delivered and practical classes engaged by guest faculty (Programme wise)	2011-12	-	-	-
		2012-13	-	24	-
		2013-14	-	35.64	78.125
13	Student Teacher Ratio (programme wise)	Year	Core	Complementary	PG
		2013-14	-	40:1	8:1
14	Number of academic support staff (technical) and administrative staff			Sanctioned	Filled
		Academic support Staff		Nil	Nil
		Administrative Staff		Nil	Nil

15	<b>Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ MPhil/PG</b>				
	Name	Qualification			
	Dr. Davis Antony Mundassery	M.Sc., M. Phil., Ph.D.			
	Dr. Mariyamma K.D.	M.Sc., M. Phil., Ph.D.			
	Mr. Aneesh K.P.	M.Sc.			
	Ms. Anjana A.G.	M.Sc.			
	Ms. Megha C.M.	M.Sc., B.Ed.			

16	Number of faculty with ongoing projects from a) National b) International	Nil
17	Departmental projects funded by DST-FIST; UGC, DBT, ICSSR, etc.	Nil
18	Research Centre/facility recognized by the University	Nil

19	<b>Publications Details</b>											
A - Publication per faculty (B+C+D+G); B - Number of papers published in peer reviewed journals (national / international) by faculty; C - Number of publications listed in International Database/Citation Index; D - Books with ISBN/ISSN or Chapter in Books; E - Books Edited; F - Sessions Chaired / Resource person; G - Publications in the proceedings of Seminars/Conferences; H- SNIP; I – SJR; J- Impact Factor; K-h index												
	Name of faculty	A	B	C	D	E	F	G	H	I	J	K
	Dr. Davis Antony Mundassery	4	2	-	-	-	4	2	-	-	-	-
	Dr. Mariyamma K.D.	8	7	-	-	-	1	1	-	-	-	-
	<b>Total</b>	<b>12</b>	<b>9</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>5</b>	<b>3</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>

<b>Paper Presentation by the teachers</b>					
	Name of faculty	International	National	Regional/State	Total
	Dr. Davis Antony Mundassery	3	3	-	6
	Dr. Mariyamma K.D.	6	1	-	7
	<b>Total</b>				<b>13</b>

20	<b>Area of Consultancy and income generated</b>	
	Consultancy	Income generated
	<ul style="list-style-type: none"> <li>Question Paper Setting</li> <li>Consultant in the preparation NAAC reports</li> <li>Statistical Analysis and interpretation of Data</li> </ul>	Nil

21	<b>Faculty as members in National Committees, International Committees etc</b>		
	Faculty as members in	Name of the faculty	Name of the committee
	National Committees	Dr. Davis Antony Mundassery	Indian Society for Probability



International Committees	Nil	Nil
Editorial Boards	Nil	Nil
Any other	Dr. Davis Antony Mundassery	Kerala Statistical Association

22	Student Projects	Nil (M.Sc. Statistics started in 2014)
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23	<b>Awards Recognitions received by faculty and students</b>	
	Name	Student/Faculty
	Dr. Mariyamma K.D.	Faculty
		Awards/ Recognitions received
		Prof. R.N. Pillai Best Paper Award, Kerala Statistical Association

24	<b>List of eminent academicians and scientists/ visitors to the department</b>	
	Name	Designation
	Dr. Sunoj S.M.	Assistant Professor, Department of Statistics, CUSAT
	Dr. K.K. Jose	Principal and HOD of Statistics, St. Thomas College, Pala
	Dr. P.O. Jenson	Principal, St. Thomas College, Thrissur
	Dr. T.M. Jacob	Dept. of Statistics, Nirmala College, Muvattupuzha
	Dr. Alice Mani Jacob	Senior Consultant, IGNOU, Kaloor, Ernakulam
	Dr. T. Jayasankar	HOD, Dept, of Statistics, Bharathidasan University, Trichi
	Dr. K. Bhoopathy	Dept of Economics, Bharathiyar University, Coimbatore
	Dr. Md. Anal Kabeer	School of Biotechnology, NIT, Calicut

25	<b>Seminar/Conference/ Workshops organized and the source of funding</b>		
	Seminar/Conference/ Workshop	International, National/others	Year
	Advanced Computational Techniques (ACT 2011)	National	2011
			Source of Funding
			UGC

26	Student Profile programme/course wise	NA
27	Diversity of Students	NA
28	How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defence services, etc.	NA
29	Student progression	NA

30	<b>Details of Infrastructural facilities</b>	
	a) Library	629 books in College Library
	b) Internet facilities for staff and students	Internet facility to staff
	c) Class room with ICT facility	Nil
	d) Laboratories	Nil

31	Number of students receiving financial assistance from college, university, government or other agencies	Nil
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32	<b>Details on student enrichment programmes (special lectures / workshops / seminar) with external experts</b>		
	Year	Programme	Resource person
	2010-11	Invited Talk	Dr. Sunoj S.M., Assistant Professor, Department of Statistics, CUSAT
		National Seminar	Dr. T.M. Jacob, Dept. of
			Topic delivered
			Scope and Applications of Statistics-An overview
			Computational techniques for



2011-12	(ACT 2011)	Statistics, Nirmala College, Muvattupuzha	regression analysis using SPSS
	National Seminar (ACT 2011)	Dr. Alice Mani Jacob, Senior Consultant, IGNOU, Kaloor, Ernakulam	Elementary features of SPSS
	National Seminar (ACT 2011)	Dr. T. Jayasankar, HOD, Dept. of Statistics, Bharathidasan University, Trichi	Covariance and multivariate analysis using SPSS
	National Seminar (ACT 2011)	Dr. Md. Anal Kabeer, School of Biotechnology, NIT, Calicut	Research methodology and ethics
	National Seminar (ACT 2011)	Dr. K. Bhoopathy, Department of Economics, Bharathiyar University, Coimbatore	Computational techniques using SPSS
2012-13	Invited Talk	Dr. K.K. Jose, Principal and HOD of Statistics, St. Thomas College, Pala	A study of multiple and logistic regression
2013-14	Invited Talk	Dr. P.O. Jenson, Principal, St. Thomas College, Thrissur	Statistical inferential techniques using SPSS

33	<b>Teaching methods adopted to improve student learning</b>		
	<ul style="list-style-type: none"> <li>• Group discussion</li> <li>• Each one teach one</li> <li>• Assignments and Seminars</li> <li>• Remedial coaching</li> <li>• Surveys and projects</li> </ul>		

34	<b>Participation in Institutional Social Responsibility (ISR) and Extension activities</b>		
Dr. Davis Antony Mundassery	<ul style="list-style-type: none"> <li>• Coordinator, Career Guidance and Placement Cell</li> <li>• Additional Chief Superintendent of examinations</li> <li>• IQAC Coordinator</li> </ul>		
Dr. Mariyamma K.D.	<ul style="list-style-type: none"> <li>• Ladies Hostel Warden 2014-15 onwards</li> </ul>		
Mr. Aneesh K P	<ul style="list-style-type: none"> <li>• NSS Programme Officer</li> </ul>		

35	<b>SWOC analysis of the department and future plans</b>		
<b>Strength</b>	<ul style="list-style-type: none"> <li>• All aided faculty are with Ph.D. degree</li> <li>• Good team spirit among faculty</li> <li>• Proficiency in use of various Mathematical and Statistical soft wares</li> </ul>		
<b>Weakness</b>	<ul style="list-style-type: none"> <li>• PG programme in self-financing stream</li> <li>• Unavailability of foreign books</li> </ul>		
<b>Opportunity</b>	<ul style="list-style-type: none"> <li>• To take interdisciplinary classes for the M.Sc. Environmental Science</li> </ul>		
<b>Challenges</b>	<ul style="list-style-type: none"> <li>• Financially poor students</li> <li>• Time limitation due to CCSS syllabus</li> <li>• Lack of excellence among students due to the poor family and academic background</li> <li>• Less Mathematics background</li> </ul>		
<b>Future plans</b>	<ul style="list-style-type: none"> <li>• To conduct National level Seminar</li> <li>• To apply for major projects</li> <li>• To start a statistical consultation wing</li> </ul>		





## Evaluative Report - Department of Botany

1	Name of the department	Botany		
2	Year of Establishment	1956		
3	Names of Programmes /Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.)	UG – B.Sc. Complementary Botany		
		PG – M.Sc. Botany (Self Financing)		
		Research Programme - Nil		
4	Names of Interdisciplinary courses and departments involved	Name of Course	Departments Involved	
		Open Programme: Complementary Botany for B.Sc. Zoology students	Dept. of Zoology	
		Add on Course:	Nil	
		Any other: M.Sc. Environmental Science	Dept. of Geology & Environmental Science	
5	Annual/ Semester/choice based credit System (programme wise)	Choice Based Credit & Semester System (CCSS) for UG & PG		
6	Participation of the department in the courses offered by other departments	1) B.Sc. Zoology - Complementary Botany 2) M.Sc. Environmental Science		
7	Courses in collaboration with other universities, industries, foreign institutions, etc.	Nil		
8	Details of courses/programmes discontinued (if any) with reasons	Nil		
9	Number of Teaching posts		Sanctioned	Filled
		Professors	Nil	Nil
		Associate Professors	2	2
		Assistant Professors	Nil	Nil
		Guest Lectures	3	3

10	<b>Faculty Profile</b>					
	Name	Qualification	Designation	Specialization	Experience in years	Ph.D. Students guided
	Mr. Joshy K. Simon	M.Sc.	Associate Professor & HOD	Taxonomy	31	Nil
	Dr. Tessy Paul P.	M.Sc., M.Phil., Ph.D.	Associate Professor	Developmental Botany and Algology	21	2 (Registration awaited)
	Ms. Steffy Francis	M.Sc.	Guest Lecturer	-	1	Nil
	Ms. Sabeena A.M.	M.Sc.	Guest Lecturer	-	4 months	Nil
	Ms. Devikrishna C.S.	M.Sc.	Guest Lecturer	-	2 months	Nil
	Mr. E. J. Vincent (Retd. on March 2013)	M.Sc.	Associate Professor, HOD (Retd.)	-	32	Nil



11	List of Senior Visiting Faculty	1. Mr. E.J. Vincent, M.Sc. 2. Dr. A.R. Raju, M.Sc. Ph.D. 3. Dr. C.J. Mani, M.Sc., Ph.D.
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12	Percentage of lectures delivered and practical classes engaged by guest faculty (Programme wise)	Year	Core	Complementary	PG
		2010-11	Nil	Lectures – 20 Practical – 25	M.Sc. Env. Science Lectures – 25.6 Practical – 22.2
		2011-12	Nil	Lectures – 10 Practical – 12.5	M.Sc. Env. Science Lectures – 12.8 Practical – 11.1
		2012-13	Nil	Nil	Nil
		2013-14	Nil	Nil	M.Sc. Botany Lectures – 76 Practical – 24
13	Student Teacher Ratio (programme wise)	Year	Core	Complementary	PG
		2013-14	-	34:1	4:1
14	Number of academic support staff (technical) and administrative staff			Sanctioned	Filled
		Academic support Staff		1	1
		Administrative Staff		Nil	Nil

15	<b>Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ MPhil/PG</b>	
	Name	Qualification
	Mr. Joshy K. Simon	M.Sc.
	Dr. Tessy Paul P.	M.Sc., M.Phil., Ph.D.
	Ms. Steffy Francis	M.Sc.
	Ms. Sabeena A.M.	M.Sc.
	Ms. Devikrishna C.S.	M.Sc.

16	Number of faculty with ongoing projects from a) National & b) International funding agencies and grants received:	Name of Principal Investigator	Details of Grant	
		Dr. Tessy Paul P.	Funding Agency	Grant received
			UGC	1.7 Lakhs
17	Departmental projects funded by DST-FIST, UGC, DBT, ICSSR, etc. and total grants received	Nil		
18	Research Centre/facility recognised by the University	Nil		

19	<b>Publications Details</b>											
A - Publication per faculty (B+C+D+G); B - Number of papers published in peer reviewed journals (national / international) by faculty; C - Number of publications listed in International Database/Citation Index; D - Books with ISBN/ISSN or Chapter in Books; E - Books Edited; F – Sessions Chaired/Resource Person; G - Publications in the proceedings of Seminars/Conferences; H- SNIP; I – SJR; J- Impact Factor; K-h index												
	Name of faculty	A	B	C	D	E	F	G	H	I	J	K
	Mr. Joshy K. Simon	2	1	-	-	-	-	1	-	-	-	-
	Dr. Tessy Paul P.	15	7	1	-	-	3	7	-	-	-	2
	Ms. Devikrishna C.S.	1	1	-	-	-	-	-	-	-	-	-
	<b>Total</b>	<b>18</b>	<b>9</b>	<b>1</b>	<b>-</b>	<b>-</b>	<b>3</b>	<b>8</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>



<b>Paper Presentation by the teachers</b>				
Name of faculty	International	National	Regional/State	Total
Dr. Tessy Paul P.	2	3	1	6
<b>Total</b>	<b>2</b>	<b>3</b>	<b>1</b>	<b>6</b>
<b>Publications/Presentations By Students</b>				
Name	International	National	Regional/State	Total
Publications	1	2	1	4
Presentations	-	9	1	10
<b>Total</b>	<b>1</b>	<b>11</b>	<b>2</b>	<b>14</b>

20	<b>Area of Consultancy and income generated</b>	
	Consultancy	Income generated
	<ul style="list-style-type: none"> <li>Taxonomical identification of Angiosperms and Algae</li> <li>Campus flora of other institutions</li> <li>Guidance given to nearby nurseries</li> </ul>	Nil

21	<b>Faculty as members in National Committees, International Committees etc</b>	
	Faculty as members in	Name of the faculty
	National/International Committees, Editorial Boards	-
	Any other	Mr. Joshy K. Simon Dr. Tessy Paul P.
		Nil <ul style="list-style-type: none"> <li>Life member, Limnological Association of Kerala (LAK)</li> <li>Life member, Indian Association of Aquatic Biologists (IAAB)</li> <li>Life member, Marine Biological Association of India (MBAI)</li> <li>Life member, Krishnamurthy Institute of Algology (KIA)</li> <li>Life member, Limnological Association of Kerala (LAK)</li> </ul>

22	<b>Student Projects</b>	
	Percentage of students who have done in-house projects including inter departmental/ programme	100
	Percentage of students placed for projects in organizations outside the institution i.e. in Research laboratories/Industry/other agencies	Nil
23	Awards Recognitions received by faculty and students	Nil

24	<b>List of eminent academicians and scientists/ visitors to the department</b>	
	Name	Designation
	Prof. Dr. Oommen V. Oommen	Chairman, Kerala State Biodiversity Board
	Dr. B.S. Corrie IFS	Principal Chief Forest Conservator, Social Forestry, Thiruvananthapuram
	Mr. E.J. Vincent	Thrissur District Co-ordinator, Kerala State Biodiversity Board.
	Mr. Jayakumar Chengamanad	Poet and Muvattupuzha Municipal Librarian



25	Seminar/Conference/ Workshops organized and the source of funding	Nil
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26 Student Profile programme/course wise						
Year	Name of the Course/programme	Applications received	Selected	Enrolled		Pass Percentage
				M	F	
2013-14	PG – M.Sc. Botany	28	12	2	10	Ongoing

27 Diversity of Students				
Year	Name of the Course/programme	% of students from the state	% of students from other states	% of students from abroad
		PG – M.Sc. Botany	100	Nil

28	How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defence services, etc.	NA (1 <sup>st</sup> batch started in year 2013 only)
29	Student Progression	

30 Details of Infrastructural facilities	
a) Library	949 Books and 8 Journals in College Library, 275 Books in Department Library
b) Internet Facilities for staff and students	Yes, for staff and PG students
c) Class room with ICT facility	Botany lab; 2 LCD projectors
d) Laboratories	B.Sc. Lab and M.Sc. Lab

31 Number of students receiving financial assistance from college, university, government or other agencies				
Year	College	University	Government	Others
	No. of Students	No. of Students	No. of Students	No. of Students
2013-14	4	Nil	Nil	Nil

32 Details on student enrichment programmes (special lectures / workshops / seminar) with external experts			
Year	Programme	Resource person	Topic delivered
2012-'13	Invited Talk	Dr. Sheela Francis, Department of Botany, Sree Kerala Varma College, Thrissur	Biodiversity and importance of Mangroves
2013-'14	Awareness Talk	Mr. E.J. Vincent, Thrissur District Co-ordinator, Kerala State Biodiversity Board, Kerala.	Biodiversity and Conservation
	Invited Talk in connection with World Environment Day June 5 <sup>th</sup>	Mr. Jayakumar Chengamanad, Poet and Muvattupuzha Municipal Librarian	Nature
	Vanamaholsavam 2014	Dr. B.S. Corrie IFS, Principal Chief Forest Conservator, Social Forestry, Thiruvananthapuram	Importance of forests
	Botany Association Inauguration	Dr. G. Jayakrishnan, HOD, Department of Botany, Sreekrishna College, Guruvayur	Modern trends in Plant Science



2014-'15	Special Lecture	Prof. Dr. Oommen V. Oommen, Chairman, Kerala State Biodiversity Board	Biodiversity - Importance and Conservation
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33	<b>Teaching methods adopted to improve student learning</b>		
<ul style="list-style-type: none"><li>• Power Point presentations</li><li>• Live specimens of plants are shown to students in theory classes</li><li>• Field study trips</li></ul>			

34	<b>Participation in Institutional Social Responsibility (ISR) and Extension activities</b>		
<ul style="list-style-type: none"><li>• Botany department gave environmental awareness to the students and local community regarding the protection and conservation of environment and ecology</li><li>• Scientific names of the plants in the campus are displayed</li><li>• Collection and conservation of rare, endangered and threatened (RET) plants in the campus</li><li>• Biodiversity awareness exhibitions conducted for Biodiversity club members of the college</li><li>• Department of Botany organized trekking to Karanthode Forest Area, Vazhachal and its surroundings Vazhachal Forest Division, Kerala for giving environmental awareness to M.Sc. Environmental Science students</li><li>• Field trips conducted for M.Sc. Botany students</li></ul>			
<b>Mr. E.J. Vincent</b>			
<ul style="list-style-type: none"><li>• Calicut University Senate Member 2011 - 2012</li><li>• Board of Studies Member – Botany (UG Board), University of Calicut.</li><li>• Judge of Science exhibition of Thrissur Revenue District at Irinjalakuda 2011- 2013</li><li>• Examiner for Biology Practical Examination of ICSE and ISE from 2011 to 2014</li><li>• Master trainee in the census held in 2011</li><li>• Elected as the member of the social welfare committee of 12<sup>th</sup> five-year plan formed by the Irinjalakuda Municipality.</li></ul>			
<b>Mr. Joshy K. Simon</b>			
<ul style="list-style-type: none"><li>• Judged projects in connection with Thrissur Revenue District Kerala School Sasthrolsavam 2010, 2012, 2013, 2014</li><li>• Delivered a talk on Biodiversity in connection with World Environment Day Celebrations 5<sup>th</sup> June, 2012 organized by Mukundapuram Taluk Legal Services Committee, Irinjalakuda and Bar Association Irinjalakuda</li><li>• Value Education Classes – 2010 to 2014</li><li>• Delivered a lecture on “Plant Red data Book” for the UG students of Little Flower College, Mammiyur in association with the inauguration of Botany Association on August 10, 2010.</li><li>• Biodiversity Club Co-ordinator</li></ul>			
<b>Dr. Tessy Paul P.</b>			
<ul style="list-style-type: none"><li>• Board of Studies Member – Plant Science (Single Board), University of Calicut.</li><li>• Value Education Classes 2011 to 2013</li><li>• Women’s Development Cell Convener 2012 – 2013</li><li>• Women’s Development Cell Executive Committee member – 2013 onwards</li><li>• Anti Harassment Committee, Committee member – 2012 onwards</li><li>• Judged Paper Presentations Competition on “<i>Innovative Practices in Environmental Conservation</i>” organized by IQAC, St. Mary's College, Thrissur, held on 4<sup>th</sup> December 2013.</li><li>• Inaugurated the Botany Association of M.E.S. Asmabi College, P. Vemballur, Kodungallur, and delivered a lecture on “<i>Research in Freshwater Algae in Kerala</i>” on 10<sup>th</sup> January, 2014.</li></ul>			



35	<b>SWOC analysis of the department and future plans</b>
<b>Strength</b>	<ul style="list-style-type: none"><li>• One of the faculty is a recognized research guide of the University of Calicut.</li><li>• Very active Biodiversity Club under the Department.</li><li>• Teaching using ICT.</li><li>• Availability of a large number of books in the library.</li><li>• Adequate lab space and research equipment.</li><li>• Number of nature study tours to give environmental awareness to students.</li><li>• Bio-diverse campus with many rare plants which are specimens for the students.</li><li>• Rare, threatened and endangered plants are maintained in the garden, which can be used for the research work of M.Sc. students.</li></ul>
<b>Weakness</b>	<ul style="list-style-type: none"><li>• Lab facilities need to be improved for advanced project works.</li><li>• No UG programme under the Department.</li><li>• Since M Sc Botany is a self-financing course, mediocre students who can afford higher fees are admitted.</li></ul>
<b>Opportunity</b>	<ul style="list-style-type: none"><li>• To take interdisciplinary classes for the M.Sc. Environmental Science course.</li><li>• To guide interdisciplinary projects of M.Sc. Environmental Science course.</li><li>• Share knowledge with M.Sc. Botany students and make them self reliant as far as Plant Science is concerned.</li></ul>
<b>Challenges</b>	<ul style="list-style-type: none"><li>• To find resources for developing the self-financing M.Sc. Botany course.</li><li>• To make the students competent and updated who are from the rural sector</li></ul>
<b>Future plans</b>	<ul style="list-style-type: none"><li>• To start an aided course under the Department.</li><li>• To conduct awareness programmes to develop eco-friendly culture among all the students.</li><li>• To strengthen research by attracting externally funded projects.</li><li>• To organize more invited lectures for the students.</li></ul>



## Evaluative Report - Department of BPE (Bachelor of Physical Education)

1	Name of the department	BPE		
2	Year of Establishment	1990		
3	Names of Programmes /Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.)	UG – BPE (4 year Integrated Residential Professional Programme)		
		PG– Nil		
		Research Programme –Nil		
4	Names of Interdisciplinary courses and departments involved	Name of Course	Departments Involved	
		Open Programme	Nil	
		Add on Course: Yoga and Yoga Therapy	All Departments	
		Any other	Nil	
5	Annual/ Semester/choice based credit System (programme wise)	Annual for UG - BPE		
6	Participation of the department in the courses offered by other departments	Nil		
7	Courses in collaboration with other Universities, industries, foreign institutions, etc.	Nil		
8	Details of courses/programmes discontinued (if any) with reasons	Nil		
9	Number of Teaching posts		Sanctioned	Filled
		Professors	Nil	Nil
		Associate Professors	4	4
		Assistant Professors	2	2
		Guest Lectures	Nil	Nil

10	<b>Faculty Profile</b>					
	Name	Qualification	Designation	Specialization	Experience in years	Ph.D. Students guided (last 4 years)
	Dr. Aravinda B.P.	M.P.E., Ph.D.	Associate Professor, HOD	Gymnastics	22	Nil
	Dr. Vivekanandan T.	M.P.Ed., M.Phil., Ph.D.	Associate Professor	Volleyball	21	3
	Mr. Soni John T.	M.P.E., M.Phil.	Associate Professor	Cricket	19	Nil
	Mr. Thomas V.A.	M.P.E., M.Phil.	Associate Professor	Hockey	17	Nil
	Fr. Joy P.T.	M.P.Ed.	Assistant Professor	Football	8	Nil
	Dr. N. Anilkumar	M.P.E.S., M.Phil., Ph.D.	Assistant Professor	Handball	8	Nil
11	List of Senior Visiting Faculty					Nil

12	Percentage of lectures delivered and practical classes engaged by guest faculty (Programme wise)	Year	Core	Complementary	PG
		2010-11	Nil	-	-
		2011-12	Nil	-	-
		2012-13	Nil	-	-



		2013-14	Nil	-	-
13	Student Teacher Ratio (programme wise)	Year	Core	Complementary	PG
		2013-14	20:1	-	-
14	Number of academic supportstaff (technical) and administrative staff			Sanctioned	Filled
		Academic support Staff		4	4
		Administrative Staff		1	1

Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D./ MPhil/PG	
Name	Qualification
Dr. Aravinda B.P.	M.P.E., Ph.D.
Dr. Vivekanandan T.	M.P.Ed., M.Phil., Ph.D.
Mr. Soni John T.	M.P.E., M.Phil.
Mr. Thomas V.A.	M.P.E., M.Phil.
Fr. Joy P.T.	M.P.Ed.
Dr. N. Anilkumar	M.P.E.S., M.Phil., Ph.D.

16	Number of faculty with ongoing projects from a) National b) International funding agencies and grants received:	Name of Principal Investigator	Details of Grant	
			Funding Agency	Grant received
		Dr. Aravinda B.P.	UGC	Rs. 1.4 Lakhs
		Dr. Vivekanandan T.	UGC	0.75 Lakhs
17	Departmental projects funded by DST-FIST; UGC, DBT, ICSSR, etc. and total grants received:	Nil		
18	Research Centre/facility recognised by the University	<ul style="list-style-type: none"> <li>Two of the faculty are approved research guides of Karpagam University, University of Calicut and Bharathiyar University, Coimbatore</li> </ul>		

19	Publications Details										
A - Publication per faculty (B+C+D+G); B - Number of papers published in peer reviewed journals (national / international) by faculty; C - Number of publications listed in International Database/Citation Index; D - Books with ISBN/ISSN or Chapter in Books; E - Books Edited; F - Sessions Chaired; G - Publications in the proceedings of Seminars/Conferences; H- SNIP; I - SJR; J- Impact Factor; K-h index											
Name of faculty	A	B	C	D	E	F	G	H	I	J	K
Dr. Aravinda B.P.	1	1	-	-	-	4	-	-	-	-	-
Dr. Vivekanandan T.	2	1	-	1	-	3	-	-	-	-	-
Mr. Soni John T.	4	-	-	1	-	4	3	-	-	-	-
Fr. Joy P.T.	-	-	-	-	-	1	-	-	-	-	-
Dr. N. Anilkumar	1	1	-	-	-	-	-	-	-	-	-
<b>Total</b>	<b>8</b>	<b>3</b>	<b>-</b>	<b>2</b>	<b>-</b>	<b>12</b>	<b>3</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>

20	Area of Consultancy and income generated	
Consultancy		Income generated
<b>Dr. Aravinda B.P.</b> <ul style="list-style-type: none"> <li>Consultant for Sports Competitions of different Institutions and organizations</li> </ul> <b>Dr. Vivekanandan T.</b> <ul style="list-style-type: none"> <li>Technical Consultant Thrissur District Volleyball Association</li> </ul> <b>Mr. Soni John T.</b>		Nil





<ul style="list-style-type: none"> <li>• Sports Psychologist Kerala Team National Games 2015</li> </ul> <b>Fr. Joy P.T.</b> <ul style="list-style-type: none"> <li>• Consultant – International Aquatic Complex Christ Vidyanykethan</li> <li>• Indoor Shuttle Court Catholic Center Irinjalakuda</li> </ul>	
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21	<b>Faculty as members in National Committees, International Committees etc</b>		
	Faculty as members in	Name of the faculty	Name of the committee
	National Committees	-	-
	International Committees	Mr. Soni John T.	<ul style="list-style-type: none"> <li>• Member, International Society of Sport Psychology.</li> <li>• Member, Asia South Pacific Association of Sport Psychology.</li> </ul>
	Editorial Boards	Dr. Aravinda B.P.	Review Committee, Journal of Physical Education and Sports
		Dr. Vivekanandan T.	Review Committee, Voice of Sports
	Any other	Dr. Vivekanandan T.	Member, Sports Psychology Association of India.
		Mr. Soni John T.	Regional Secretary, South India, Sport Psychology Association of India.

22	Student Projects	Nil
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23	<b>Awards Recognitions received by faculty and students</b>		
	Name	Student/Faculty	Awards/ Recognitions received
	Fr. Joy P.T.	Faculty	Paristhithi Award 2014, Vision Irinjalakuda
	Fr. Joy P.T.	Faculty	Tree Lover Award 2013, <i>Thanima</i> Cultural Fest, Irinjalakuda.

24	<b>List of eminent academicians and scientists/ visitors to the department</b>	
	Name	Designation
	Prof. Tony Morris	Sport Scientist, Victoria University, Australia
	Dr. Kamalesh M.L.	Former Principal, LNCPE, Trivandrum, Former President, SPAI, Sport Scientist, Pubjabi University, Punjab.
	Dr. Vaithyanathan K.	Vice Chancellor, Tamil Nadu Physical Education and Sports University, Chennai.
	Dr. Moorthy A.M.	Former Vice Chancellor, Alagappa University, Tamil Nadu.
	Dr. George Immanual	Athletic Coach, Kerala Sports Council, G.V. Raja Sports school, Trivandrum.
	Mr. Roy John	Athletic Coach, Govt. College of Physical Education, Calicut.

25	<b>Seminar/Conference/ Workshops organized and the source of funding</b>			
	Seminar/Conference/ Workshop	International, National/others	Year	Source of Funding
	23 <sup>rd</sup> SPAI National Conference	National	2013	UGC

26	<b>Student Profile programme/course wise</b>						
	Year	Name of the Course/programme	Applications received	Selected	Enrolled		Pass Percentage
					M	F	
	2009-10	UG	218	32	19	13	83



2010-11	UG	233	31	21	10	69
2011-12	UG	193	41	36	5	95
2012-13	UG	227	41	32	9	84
2013-14	UG	CAP	41	34	7	75

27	<b>Diversity of Students</b>			
Year	Name of the Course/programme	% of students from the state	% of students from other states	% of students from abroad
2009-10	UG	100	Nil	Nil
2010-11	UG	100	Nil	Nil
2011-12	UG	100	Nil	Nil
2012-13	UG	100	Nil	Nil
2013-14	UG	100	Nil	Nil

28	How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defence services, etc.	Nil
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29	<b>Student Progression</b>			
Student Progression	No. of students			
	2009-10	2010-11	2011-12	2012-13
UG to PG	12	15	13	17
PG to M.Phil.	-	-	-	-
PG to Ph.D.	-	-	-	-
• Employed Campus selection	-	-	-	4
• Other than campus recruitment	-	17	14	9

30	<b>Details of Infrastructural facilities</b>	
a) Library	573 Books and 2 Journals in College Library	
b) Internet Facilities for staff and students	Yes, for staff and students	
c) Class room with ICT facility	3 Class Rooms	
d) Laboratories	Human Performance Lab	

31	<b>Number of students receiving financial assistance from college, university, government or other agencies</b>			
Year	College	University	Government	Others
	No. of Students	No. of Students	No. of Students	No. of Students
2010-11	-	-	69	-
2011-12	-	-	81	-
2012-13	-	-	90	-
2013-14	-	-	97	-

32	<b>Details on student enrichment programmes (special lectures / workshops / seminar) with external experts</b>		
Year	Programme	Resource person	Topic delivered
2012-13	Athletic Clinic	Dr. George Emanuel, Athletic Coach, Kerala Sports Council, G.V. Raja Sports school, Trivandrum	Rules and Interpretation of Athletics
	Athletic Clinic	Mr. Roy John, Athletic Coach, Govt. College of Physical	Rules and Interpretation of



2013-14		Education, Calicut	Athletics
	23 <sup>rd</sup> SPAI National Conference	Prof. Tony Morris, Sport Scientist, Victoria University, Australia	Keynote on Contribution of sports psychology
	23 <sup>rd</sup> SPAI National Conference	Dr. Kamalesh M.L., Former Principal, LNCPE, Trivandrum, Former President, SPAI, Sport Scientist, Pobjabi University, Punjab	Keynote on Sports and high performance
	Yoga Inauguration	Dr. Vaithyanathan K., Vice Chancellor, Tamil Nadu Physical Education and Sports University, Chennai	Yoga and Yoga Therapy
	Yoga Inauguration	Dr. Moorthy A.M., Former Vice Chancellor, Alagappa University, Tamil Nadu	Yoga and Health Management

33	<b>Teaching methods adopted to improve student learning</b>
<ul style="list-style-type: none"> <li>• Imitation Method</li> <li>• Demonstration Method</li> <li>• Lecture Method</li> <li>• Projects - Sports competitions</li> <li>• ICT – Smart Class</li> </ul>	

34	<b>Participation in Institutional Social Responsibility (ISR) and Extensionactivities</b>
Name of Faculty	Activity
Dr. Aravinda B.P.	<ul style="list-style-type: none"> <li>• Chairman, UG Board of Studies in Physical Education, University of Calicut, 2006 – 2012.</li> <li>• Member, (PG) Board of Studies in Physical Education, University of Calicut, 2006 – 2012.</li> <li>• Member, Faculty Education, University of Calicut.</li> </ul>
Dr. Vivekanandan T.	<ul style="list-style-type: none"> <li>• Member, Faculty Education, University of Calicut.</li> <li>• Member, UG and PG Board of Studies in Physical Education, University of Calicut 2006 – 2012.</li> </ul>
Mr. Soni John T.	<ul style="list-style-type: none"> <li>• Member, Technical Committee, Kerala Cricket Association.</li> <li>• Chairman, Thrissur District Junior Cricket team selection committee.</li> <li>• Director and Chief Coach, Christ College Cricket academy.</li> </ul>
Fr. Joy P.T.	<ul style="list-style-type: none"> <li>• Member, UG Board of Studies in Physical Education, University of Calicut 2013 onwards.</li> <li>• Kidney Federation of India, Irinjalakuda Chapter, Vice Chairman.</li> <li>• Executive member, Table Tennis District Association .</li> </ul>
Dr. N. Anilkumar	<ul style="list-style-type: none"> <li>• Thrissur District Handball Association Treasurer.</li> <li>• Kerala State Handball Team Selector.</li> <li>• Kerala State Shooting Team Selector.</li> </ul>

35	<b>SWOC analysis of the department and future plans</b>
Strength	<ul style="list-style-type: none"> <li>• Constant interaction with students.</li> <li>• Collective effort.</li> </ul>



	<ul style="list-style-type: none"><li>• Good interpersonal relationship.</li><li>• Weekly programmes (Intramurals, literary and cultural activities).</li><li>• Faculty with doctoral degrees and all aide area of specialization.</li></ul>
Weakness	<ul style="list-style-type: none"><li>• Financial constraints especially Grants from Government.</li><li>• Indoor facility.</li><li>• Students coming from poor academic background.</li></ul>
Opportunity	<ul style="list-style-type: none"><li>• Jobs in new and upcoming areas like health, fitness and yoga therapy etc.</li><li>• Competency to meet the societal demands.</li><li>• Getting specialization in all aide sports disciplines.</li><li>• National and International relationships.</li><li>• Promoting students for PG programmes.</li></ul>
Challenges	<ul style="list-style-type: none"><li>• Offering quality programmes in the midst of financial constraints.</li><li>• Creating fitness awareness in the society towards the need of the hour.</li><li>• Equipping students for competitive programmes.</li></ul>
Future plans	<ul style="list-style-type: none"><li>• Construction of indoor stadium.</li><li>• To start PG course in the aided sector</li><li>• Enhancing Research capabilities.</li><li>• Setting up of advanced facilities for training and coaching.</li><li>• Organizing international seminar and workshops.</li></ul>



## Evaluative Report - Department of Malayalam

1	Name of the department	Malayalam		
2	Year of Establishment	1956		
3	Names of Programmes /Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.)	UG – Common Course Malayalam, UG - B.A. Malayalam with Journalism and Kerala Padanam (Self Financing)		
4	Names of Interdisciplinary courses and departments involved	Nil		
5	Annual/ Semester/choice based credit system(programme wise)	Choice Based Credit & Semester System (CCSS) for UG		
6	Participation of the department in the courses offered by other departments	Nil		
7	Courses in collaboration with other Universities, industries, foreign institutions	Nil		
8	Details of courses/programmes discontinued (if any) with reasons	Nil		
9	Number of Teaching posts		Sanctioned	Filled
		Professors	Nil	-
		Associate Professors	1	1
		Assistant Professors	Nil	-
		Guest Lecturers	4	4

10	<b>Faculty Profile</b>					
	Name	Qualification	Designation	Specialization	Experience in years	Ph.D. Students guided
	Mr. Sebastian Joseph	M.A.,M.Phil.	Associate Professor	Novel,Film Songs	23	Nil
	Mr. C.V. Sudheer	M.A., PGDJC.	Guest Lecturer	Grammar & Linguistics	3	Nil
	Ms. Sinto Konkoth	M.A.	Guest Lecturer	Kerala Studies	6	Nil
	Mr. Anoop M.R.	M.A.	Guest Lecturer	Poetry	2	Nil
	Ms. Seema Michael	M.A.	Guest Lecturer	Short Story	1	Nil
11	List of Senior Visiting Faculty			Nil		

12	Percentage of lectures delivered and practical classes engaged by guest faculty (Programme wise)	Year	Core	Complementary	Common Course	
		2010-11	-	-	30	
		2011-12	-	-	30	
		2012-13	-	-	30	
		2013-14	100	100	30	
13	Student Teacher Ratio (programme wise)	Year	Core	Complementary	Common Course	
		2013-14	20:1	45:1	75:1	
14	Number of academic support staff (technical) and administrative staff				Sanctioned	Filled
		Academic support Staff			Nil	Nil
		Administrative Staff			Nil	Nil

15	Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ MPhil/PG	
	Name	Qualification



Mr. Sebastian Joseph	M.A., M.Phil., B.Ed.
Mr. C.V. Sudheer	M.A., PGDJC
Ms. Sinto Konkoth	M.A., B.Ed.
Mr. Anoop M.R.	M.A., B.Ed.
Ms. Seema Michael	M.A.

16	Number of faculty with ongoing projects from a) National b) International funding agencies and grants received	Nil
17	Departmental projects funded by DST-FIST; UGC, DBT, ICSSR, etc. and total grants received	Nil
18	Research Centre/facility recognized by the University	Nil

19	<b>Publications</b>										
A - Publication per faculty (B+C+D+G); B - Number of papers published in peer reviewed journals (national / international) by faculty; C - Number of publications listed in International Database/Citation Index; D - Books with ISBN/ISSN or Chapter in Books; E - Books Edited; F – Sessions Chaired; G - Publications in the proceedings of Seminars/Conferences; H- SNIP; I – SJR; J- Impact Factor; K-h index											
Name of faculty	A	B	C	D	E	F	G	H	I	J	K
Mr. C.V. Sudheer	1	-	-	1	-	-	-	-	-	-	-
<b>Total</b>	1	-	-	1	-	-	-	-	-	-	-

<b>Publications/Presentations by Students</b>	1
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20	Area of Consultancy and income generated	Nil
21	Faculty as members in National committees, International committees etc.	Nil
22	Student Projects	NA

23	<b>Awards Recognitions received by faculty and students</b>	
Name	Student/Faculty	Awards/ Recognitions received
Mr. Sebastian Joseph	Faculty	<i>Ezhuthani Puraskaram</i> - Instituted by Coimbatore 'Malayali Samajam' for designing and conducting a certificate course for non-resident Keralites and non Malayalies for the first time in India.
Mr. C.V. Sudheer	Faculty	From Kerala Sahithya Academy, Thrissur

24	<b>List of eminent academicians and scientists/ visitors to the department</b>	
Name	Designation	Programme
Mr. Denny Denial (Benyamin)	Novelist	Interaction With Students
Mr. P.C. Cyriac IAS	Former Addl. Chief Secretary, Tamil Nadu	Presentation of Kalalaya Ratna Award
Mr. C.R. Neelakantan	Environmental Activist	Presentation of Kalalaya Ratna Award
Mr. K. Venu	Political Ideologue	Presentation of Kalalaya Ratna Award
Dr. Aju Narayanan	Folklorist	Inter Disciplinary Lecture
Mr. Kuzhur Wilson	Poet	Interaction with students
Prof. T.P. Sudhakaran	Columnist	Dr. Azhikode Commemorative speech
Prof. I. Shanmughadas	Film Critic	Interaction with students



33	<b>Teaching methods adopted to improve student learning</b>
	<ul style="list-style-type: none"><li>• Collecting data for net sources like Wikipedia (Malayalam).</li><li>• Assignments, Seminars etc.</li></ul>

34	<b>Participation in Institutional Social Responsibility (ISR) and Extension activities</b>
	<b>Mr. Sebastian Joseph</b> <ul style="list-style-type: none"><li>• Senate Member, University of Calicut.</li><li>• Malayalam P.G. Board of studies, Kannur University</li><li>• <i>Edangerayaparishkaram</i> (A Study based on a survey among teachers and students about the choice based credit and semester system implemented under University of Calicut) published in Samakalika Malayalam Varika on 13 July 2012</li></ul>

35	<b>SWOC analysis of the department and future plans</b>
<b>Strength</b>	<ul style="list-style-type: none"><li>• UG programme started and chance of getting its own students.</li><li>• Teachers including the Guest Lecturers are enthusiastic, hence ready to take up extension programmes.</li></ul>
<b>Weakness</b>	<ul style="list-style-type: none"><li>• UG programme in Self Finance mode. May not attract highly meritorious students</li><li>• No permanent faculty as the B.A. course is given only temporary affiliation by the University</li></ul>
<b>Opportunity</b>	<ul style="list-style-type: none"><li>• To elevate as PG and Research Department.</li><li>• Organizing more extension programmes and seminars.</li><li>• Nurturing the literary talents of the students and bringing out noteworthy contributions.</li></ul>
<b>Challenges</b>	<ul style="list-style-type: none"><li>• Getting aided status for the course, if not, providing scholarship for the needy students of the course.</li><li>• Maintaining good quality, which may attract good students even if the course is run in Self Finance mode.</li></ul>
<b>Future plans</b>	<ul style="list-style-type: none"><li>• To start PG course in Malayalam with Journalism.</li><li>• To start a research wing with M.Phil. course.</li><li>• To propose an add-on course for Malayalam at U.G. level.</li></ul>



## Evaluative Report - Department of Computer Science

1	Name of the department	Computer Science		
2	Year of Establishment	2012		
3	Names of Programmes /Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.)	UG - B.Sc. Computer Science UG - B.Sc. Computer Application		
4	Names of Interdisciplinary courses and departments involved	Name of Course	Departments Involved	
		Open Programme: Web Designing	All Departments	
		Add on Course: Web Designing	All Departments	
		Any other: Computational Physics	Physics Dept.	
		Visual programming and Programming in C	Mathematics Dept.	
5	Annual/ Semester/choice based credit system(programme wise)	Choice Based Credit & Semester System (CCSS) for UG		
6	Participation of the department in the courses offered by other departments	Nil		
7	Courses in collaboration with other universities, industries, foreign institutions, etc.	Nil		
8	Details of courses/programmes discontinued (if any) with reasons	Nil		
9	Number of Teaching posts		Sanctioned	Filled
		Professors	Nil	Nil
		Associate Professors	Nil	Nil
		Assistant Professors	Nil	Nil
		Guest Lectures	6	6

10	<b>Faculty Profile</b>				
	Name	Qualification	Designation	Specialization	Experience in years
	Ms. VijiViswanathan	MCA	Guest Lecturer	Computer Science	1
	Ms. Deepthy Jose	M.Sc.	Guest Lecturer	-	1
	Ms. Jasmine Jolly	M.Tech.	Guest Lecturer	Computer Science and Engineering	3
	Ms. Greeshma Paulson	MCA	Guest Lecturer	-	9 months
	Ms. Asha V.	MCA	Guest Lecturer	-	4 months
	Ms. Preetha Thomas	MCA	Guest Lecturer	-	2 months
11	List of Senior Visiting Faculty				Nil

12	Percentage of lectures delivered and practical classes engaged by guest faculty (Programme wise)	Year	Core	Complementary	PG
		2012-13	100	100	Nil
		2013-14	100	100	Nil
13	Student Teacher Ratio (programme wise)	Year	Core	Complementary	PG
		2012-13	20:1	20:1	Nil
		2013-14	20:1	20:1	Nil





14	Number of academic support staff (technical) and administrative staff		Sanctioned	Filled
		Academic support Staff	Nil	Nil
		Administrative Staff	Nil	Nil

15	<b>Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ MPhil/PG</b>		
	Name	Qualification	
	Ms. Viji Viswanathan	MCA	
	Ms. Deepthy Jose	M.Sc. Computer Science	
	Ms. Jasmine Jolly	M.Tech. Computer Science and Engineering	
	Ms. Greeshma Paulson	MCA	
	Ms. Asha V.	MCA	
	Ms. Preetha Thomas	MCA	
16	Number of faculty with ongoing projects from a) National b) International funding agencies and grants received:		Nil
17	Departmental projects funded by DST-FIST; UGC, DBT, ICSSR, etc. and total grants received		Nil
18	Research Centre/facility recognised by the University		Nil

19	<b>Publications Details</b>											
A - Publication per faculty (B+C+D+G); B - Number of papers published in peer reviewed journals (national / international) by faculty; C - Number of publications listed in International Database/Citation Index; D - Books with ISBN/ISSN or Chapter in Books; E - Books Edited; F – Sessions Chaired; G - Publications in the proceedings of Seminars/Conferences; H- SNIP; I – SJR; J- Impact Factor; K-h index												
	Name of faculty	A	B	C	D	E	F	G	H	I	J	K
	Ms. Jasmine Jolly	5	2	1	-	-	-	2	-	-	-	-
	<b>Total</b>	<b>5</b>	<b>2</b>	<b>1</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>2</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>

<b>Paper Presentation by the teachers</b>			
Name of faculty	International	National	Total
Ms. Jasmine Jolly	-	2	2
<b>Total</b>	<b>-</b>	<b>2</b>	<b>2</b>

20	Area of Consultancy and income generated	Income Generated
	• Web Designing	Nil

21	Faculty as members in National Committees, International Committees etc	Nil
22	Student Projects	Nil

23	<b>Awards Recognitions received by faculty and students</b>	
	Name	Student/Faculty
	Awards/ Recognitions received	
	Mr. Gokul P.	Student
	Received 2 <sup>nd</sup> Prize in Web Designing (Two-day Workshop CHIP-to-NET, Vidya Academy of Science & Technology)	

24	List of eminent academicians and scientists/ visitors to the department	Nil
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25	Seminar/Conference/ Workshops organized and the source of funding	Nil
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26 Student Profile programme/course wise						
Year	Name of the Course/programme	Applications received	Selected	Enrolled		Pass Percentage
				M	F	
2012-13	B.Sc.Computer Science	90	24	16	8	Ongoing
2013-14	BCA	41	24	11	13	Ongoing
	B.Sc. ComputerScience	CAP	32	19	13	Ongoing

27 Diversity of Students				
Year	Name of the Course/programme	% of students from the state	% of students from other states	% of students from abroad
2012-13	UG	100	Nil	Nil
2013-14	UG	100	Nil	Nil

28	How many students have cleared national and state competitive examinations suchas NET, SLET, GATE, Civil services, Defence services, etc.	NA
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29	Student Progression	NA (B.Sc. Computer Science 1 <sup>st</sup> batch started in 2012 and BCA started in 2013 only)
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30 Details of Infrastructural facilities	
a) Library	665 books, Reference and general books -25
b) Internet Facilities for staff and students	Yes, 21 Computers
c) Class room with ICT facility	1
d) Laboratories	Computer Lab with 84 Computers, TV, Projector and Internet

31 Number of students receiving financial assistance from college, university, government or other agencies				
Year	College	University	Government	Others
	No. of Students	No. of Students	No. of Students	No. of Students
2012-13	-	-	1	-
2013-14	6	-	6	-

32 Details on student enrichment programmes (special lectures / workshops / seminar) with external experts			
Year	Programme	Resource person	Topic delivered
2014-15	Workshop on Android	Mr. Mohammed Rayees P.K. Cozack technologies	GUI Application Development in Android platform

33 Teaching methods adopted to improve student learning	
<ul style="list-style-type: none"> <li>• Lecturing</li> <li>• Seminars</li> <li>• Group Discussions (FGD)</li> <li>• Power Point Presentations</li> <li>• Exposure visit</li> <li>• Training programme</li> </ul>	



- Bring new ways of teaching and learning to the benefit of students and staff.

34 | Participation in Institutional Social Responsibility (ISR) and Extension activities | Nil

35.   <b>SWOC analysis of the department and future plans</b>	
<b>Strength</b>	<ul style="list-style-type: none"><li>• Rich collection of books.</li><li>• Excellent Laboratory facility.</li><li>• Student feedback analyzed and used for improvement in all processes.</li><li>• Providing the opportunity for conducting the tech-fest and workshop.</li><li>• Encouraging students to participate in different events conducted by organizations outside the institution.</li><li>• Offering placement counseling and career guidance.</li><li>• Attending Seminars and Workshops.</li><li>• Improvement of students in curricular and co-curricular activities.</li></ul>
<b>Weakness</b>	<ul style="list-style-type: none"><li>• Courses offered in self financing mode, so meritorious students do not turnup.</li><li>• Temporary faculty only.</li></ul>
<b>Opportunity</b>	<ul style="list-style-type: none"><li>• Good career opportunities for students.</li><li>• Employable in the software industry.</li></ul>
<b>Challenges</b>	<ul style="list-style-type: none"><li>• Getting the unaided to aided status.</li><li>• Starting PG programmes.</li><li>• Enhancing ICT environment.</li><li>• Strengthening reading habit and behaviour.</li><li>• Developing research culture.</li></ul>
<b>Future plans</b>	<ul style="list-style-type: none"><li>• Starting an IT cell for training the developing technologies to equip the students for placement in the IT field.</li><li>• Conducting national and international seminars in the area of Information Technology.</li><li>• In the near future, we expect to conduct a presentation on technologies of NLP (Natural Language Processing) in association with the Department of Malayalam.</li></ul>



## Evaluative Report - Department of Social Work

1	Name of the department	Social Work		
2	Year of Establishment	2013		
3	Names of Programmes /Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.)	UG – Bachelor of Social Work (BSW)		
4	Names of Interdisciplinary courses and departments involved	Nil		
5	Annual/ Semester/choice based credit system(programme wise)	Choice Based Credit & Semester System (CCSS) for UG		
6	Participation of the department in the courses offered by other departments	Nil		
7	Courses in collaboration with other universities, industries, foreign institutions, etc.	Nil		
8	Details of courses/programmes discontinued (if any) with reasons	Nil		
9	Number of Teaching posts		Sanctioned	Filled
		Professor	Nil	Nil
		Associate Professor	Nil	Nil
		Assistant Professor	Nil	Nil
		Guest Lectures	2	2

10	<b>Faculty Profile</b>				
	Name	Qualification	Designation	Specialization	Experience in years
	Mr. Abilash V.C.	MSW	Guest Lecturer	Community Development	2
	Mr. Saijith N.S.	MSW	Guest Lecturer	Community Development	1
11	List of Senior Visiting Faculty	1. Dr. Jaya Cheriyan (HOD Dept. of Social Work, Vimala College, Thrissur) 2. Mr. James T.J (National Innovation Foundation, India)			

12	Percentage of lectures delivered and practical classes engaged by guest faculty (Programme wise)	Year	Core	Complementary	PG
		2013-14	100	100	-
13	Student Teacher Ratio (programme wise)	Year	Core	Complementary	PG
		2013-14	16:1	16:1	-
14	Number of academic support staff (technical) and administrative staff			Sanctioned	Filled
		Academic support Staff		Nil	Nil
		Administrative Staff		Nil	Nil

15	<b>Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ MPhil/PG</b>	
	Name	Qualification
	Mr. Abilash V.C.	Master of Social Work (MSW)
	Mr. Saijith N.S.	Master of Social Work (MSW)

16	Number of faculty with ongoing projects from a) National b) International funding agencies and grants received	Nil
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17	Departmental projects funded by DST-FIST; UGC, DBT, ICSSR, etc. and total grants received	Nil
18	Research Centre/facility recognized by the University	Nil
19	Publications	Nil

20	<b>Area of Consultancy and income generated</b>	
	Consultancy	Income generated
	• Street play with the collaboration of Innaction India Thrissur	Rs. 5,000
	• Local resource mobilization for Community Living Camp 2013	Rs. 35,000
	• Local resource mobilization for Community Living Camp 2014	Rs. 40,000
	• Street play with the collaboration of Social security Mission, Kerala	Rs. 5,000
	• Income generated by conducting food fest & sale of handmade cards as a part of Christmas celebration	Rs. 5,000
	Total	Rs. 90,000
21	Faculty as members in National Committees, International Committees etc	Nil
22	Student Projects	NA
23	Awards Recognitions received by faculty and students	Nil

24	<b>List of eminent academicians and scientists/ visitors to the department</b>	
	Name	Designation
	Dr. Jaya Cheriyan	HOD, Dept. of Social Work, Vimala College, Thrissur.
	Dr. James T.J.	Project Coordinator, National Innovation Foundation, Thrissur.
	Mr. Praveen George	Project Coordinator, Rajagiri Outreach Project.

25	<b>Seminar/Conference/ Workshops organized and the source of funding</b>			
	Seminar/Conference/ Workshop	International, National/others	Year	Source of Funding
	Street Theatre Workshop	Regional	2013,2014	Local Resource Mobilization
	Trainers Training Programme	Regional	2013	Inter agency cooperation
	Trainers Training Programme	Regional	2014	Inter agency cooperation

26	<b>Student Profile programme/course wise</b>					
	Year	Name of the Course/programme	Applications received	Selected	Enrolled M   F	Pass Percentage
	2013-14	UG	56	15	12   3	Ongoing

27	<b>Diversity of Students</b>				
	Year	Name of the Course/programme	% of students from the state	% of students from other states	% of students from abroad
	2013-14	UG	100	Nil	Nil

28	How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defence services, etc.	NA
29	Student Progression	NA (1 <sup>st</sup> batch started in 2013 only)

30	<b>Details of Infrastructural facilities</b>	
	a) Library	88 books
	b) Internet Facilities for staff and students	Yes



c) Class room with ICT facility	Nil
d) Laboratories	NA

31	Number of students receiving financial assistance from college, university, government or other agencies	Nil
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32	<b>Details on student enrichment programmes (special lectures / workshops / seminar) with external experts</b>		
Year	Programme	Resource person	Topic delivered
2013-14	Induction Programme	Dr. Asha Cheriyan	Social work Profession
		Mr. Saijith N.S.	Street Play a method for social awareness
		Mr. Aljo Cheriyan	Street Play for Social Workers
		Mr. James T.J.	Creative Learning for Social Workers
		Mr. Saijith N.S.	Creative Learning and Innovations

33	<b>Teaching methods adopted to improve student learning</b>
<ul style="list-style-type: none"> <li>• Focused Group Discussions (FGD), Seminars etc</li> <li>• Brainstorming sessions and problem posing approach</li> <li>• Power point presentations</li> <li>• Exposure visit to different organizations and various fields of social work.</li> <li>• Incident process</li> <li>• Training programmes for soft skill development and professional skill development.</li> </ul>	

34	<b>Participation in Institutional Social Responsibility (ISR) and Extension activities</b>
<ul style="list-style-type: none"> <li>• Organized 10 day community living camp, “Bhoomika” in Attappadi, Palakkad.</li> <li>• Conducted community living camp in Noolppuzha, Wayanad on 10-18Sept. 2014</li> <li>• Collaboration on Diabetic Project with Vincentian Service Society Marymatha Province, Angamaly, Kochi.</li> <li>• Conducted rally as a part of community living camp</li> <li>• Collaboration on the Project Creativity and Innovation by Innoaction India, Thrissur</li> <li>• Organized Street Play in collaboration with Social Security Mission for old age protection at various places of Thrissur.</li> <li>• Organized awareness programmes in collaboration with Child Line, Thrissur.</li> <li>• Conducted social mapping, one of the method of PRA in Attappadi.</li> <li>• Organized ‘NORMA-2014’, a skill Development programme for Social Work Students.</li> <li>• Organized Creative I, a programme for School students for finding their inner talents to excel.</li> <li>• “Adukkalathottam” Collaboration with Mathrubhumi for enhancing organic food culture in rural areas.</li> <li>• Organizational visits organized: <ul style="list-style-type: none"> <li>➤ Dhivyahrudhayasram, Chennaipaara, Peechi, Thrissur</li> <li>➤ Christina Adoption Centre, Pullazhi, Thrissur,</li> <li>➤ St. Joseph Mental Health Home, Pullazhi.</li> <li>➤ SOS childrens village, Mulayam.</li> <li>➤ DivyahrudayasramChennayippara.</li> <li>➤ Government Old Age Home, Pullazhi.</li> <li>➤ PratheekshaBhavan, an organization for differently abled children.</li> </ul> </li> <li>• Children’s camps conducted:</li> </ul>	



- Attappadi, Varakampadi village 2013
- Noolpuzha, Wayanad- 2014
- 'Sahrudaya camp' in Adupputty with the collaboration of Rajgiri Outreach.
- Kalikkootam – 2014 at Vadakkethala, Palakkad and Govt.HSS, Palakkad.

35	<b>SWOC analysis of the department and future plans</b>
<b>Strength</b>	<ul style="list-style-type: none"> <li>• Trained and committed faculty.</li> <li>• Concurrent fieldwork practice for Students.</li> <li>• Providing regular institutional visits, tribal and rural camp, block placement, orientation visit in different settings.</li> <li>• Practising the methods of Social Work like case work, group work, group project work and organizing various community awareness programmes.</li> <li>• Good rapport established with industry, NGOs, Hospital and Government agencies.</li> <li>• Offering placement counseling and career guidance.</li> </ul>
<b>Weakness</b>	<ul style="list-style-type: none"> <li>• More expenses besides semester fees, like travel expenses for fieldwork, organizing community organization programmes.</li> </ul>
<b>Opportunity</b>	<ul style="list-style-type: none"> <li>• Employability at fieldwork agencies like Non government Organization, Industrial setting, Clinical Setting, Counseling Center and Psychiatric Setting.</li> <li>• Expansion of social work activities in more rural and tribal areas.</li> <li>• Expansion of social work activities in industrial sectors.</li> </ul>
<b>Challenges</b>	<ul style="list-style-type: none"> <li>• Specialized topic with social commitment should inspire the students to get sufficient takers.</li> <li>• Publications in Journals</li> </ul>
<b>Future plans</b>	<ul style="list-style-type: none"> <li>• To become an economically self – sufficient Department.</li> <li>• To conduct more social work programmes among under privileged, under developed, rural and urban areas.</li> <li>• Educate future social workers for advanced social work practice and lifelong professional growth and development.</li> <li>• Provide professional leadership in resolving critical social, economic, and political challenges.</li> <li>• Promote social and economic justice and empowerment, and eliminate oppressive social conditions.</li> <li>• To enhance professional development of faculty, students and practitioners through increased educational opportunities.</li> </ul>



## Evaluative Report - Department of Psychology

1	Name of the department	Psychology		
2	Year of Establishment	2012		
3	Names of Programmes /Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.)	UG –B.Sc. Psychology		
4	Names of Interdisciplinary courses and departments involved	Nil		
5	Annual/ Semester/choice based credit system(programme wise)	Choice Based Credit & Semester System (CCSS) for UG		
6	Participation of the department in the courses offered by other departments	Students can choose one open course provided by other departments		
7	Courses in collaboration with other universities, industries, foreign institutions, etc.			Nil
8	Details of courses/programmes discontinued (if any) with reasons			Nil
9	Number of Teaching posts		Sanctioned	Filled
		Professor	Nil	Nil
		Associate Professor	Nil	Nil
		Assistant Professor	Nil	Nil
		Guest Lectures	4	4

10	<b>Faculty Profile</b>				
	Name	Qualification	Designation	Specialization	Experience in years
	Mr. Aneesh V. Appu	M.Sc. Psychology, B.Ed.	Guest Lecturer	Organizational Behaviour	2
	Ms. Bishmi P.D.	M.Sc. Applied Psychology	Guest Lecturer	Forensic Psychology	2
	Ms. Sinda Dominic	M.Sc. Clinical Psychology	Guest Lecturer	Clinical Psychology	1
	Ms. Varsha Lonappan	M.Sc. Zoology, B.Ed.	Guest Lecturer	Human Physiology	1
11	List of Senior Visiting Faculty				Nil

12	Percentage of lectures delivered and practical classes engaged by guest faculty (Programme wise)	Year	Core	Complementary	PG
		2012-13	100	100	Nil
		2013-14	100	100	Nil
13	Student Teacher Ratio (programme wise)	Year	Core	Complementary	PG
		2012-13	20:1	Nil	Nil
		2013-14	20:1	Nil	
14	Number of academic support staff (technical) and administrative staff			Sanctioned	Filled
		Academic support Staff		Nil	Nil
		Administrative Staff		Nil	Nil

15	<b>Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ MPhil/PG</b>	
	Name	Qualification





Mr. Aneesh V. Appu	M.Sc. Psychology, B.Ed.	
Ms. Bishmi P.D.	M.Sc. Applied Psychology	
Ms. Sinda Dominic	M.Sc. Clinical Psychology	
Ms. Varsha Lonappan	M.Sc. Zoology, B.Ed.	
16	Number of faculty with ongoing projects from a) National b) International funding agencies and grants received	Nil
17	Departmental projects funded by DST-FIST; UGC, DBT, ICSSR, etc. and total grants received	Nil
18	Research Centre/facility recognised by the University	Nil

19	<b>Publications Details</b>											
A - Publication per faculty (B+C+D+G); B - Number of papers published in peer reviewed journals (national / international) by faculty; C - Number of publications listed in International Database/Citation Index; D - Books with ISBN/ISSN or Chapter in Books; E - Books Edited; F – Sessions Chaired; G - Publications in the proceedings of Seminars/Conferences; H- SNIP; I – SJR; J- Impact Factor; K-h index												
Name of faculty		A	B	C	D	E	F	G	H	I	J	K
Mr. Aneesh V. Appu		2	-	-	1	-	-	1	-	-	-	-
<b>Total</b>		<b>2</b>	<b>-</b>	<b>-</b>	<b>1</b>	<b>-</b>	<b>-</b>	<b>1</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>

<b>Paper Presentation by the teachers</b>			
Name of faculty	International	National	Total
Mr. Aneesh V. Appu	1	2	3
Ms. Bishmi P.D.	-	1	1
<b>Total</b>	<b>1</b>	<b>3</b>	<b>4</b>
<b>Publications/Presentations by Students</b>			Nil

20	<b>Area of Consultancy and income generated</b>		
Consultancy		Income generated	
<ul style="list-style-type: none"> <li>Counselling services</li> <li>Awareness classes for school and college students</li> </ul>		Nil	
21	Faculty as members in National Committees, International Committees etc		Nil
22	Student Projects		NA
23	Awards Recognitions received by faculty and students		Nil

24	<b>List of eminent academicians and scientists/ visitors to the department</b>		
Name	Designation	Programme	
Dr.Sanish John	Clinical Psychologist	Psychology department association inauguration.	
25	Seminar/Conference/ Workshops organized and the source of funding		Nil

26	<b>Student Profile programme/course wise</b>					
Year	Name of the Course/programme	Applications Received	Selected	Enrolled		Pass Percentage
				M	F	
2012-13	UG	35	20	13	7	Ongoing
2013-14	UG	CAP	29	24	5	Ongoing

27	<b>Diversity of Students</b>	
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Year	Name of the Course/programme	% of students from the state	% of students from other states	% of students from abroad
2012-13	UG	100	Nil	Nil
2013-14	UG	100	Nil	Nil

28	How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defence services, etc.	NA
29	Student Progression	NA (1 <sup>st</sup> batch started in 2012)

30	<b>Details of Infrastructural facilities</b>	
a) Library	81 Books in the College Library	
b) Internet Facilities for staff and students	Yes	
c) Class room with ICT facility	Nil	
d) Laboratories	One well equipped laboratory which includes 25 Psychological Experimental instruments (15 machine equipments and 10 psychological tests) which includes personality(16PF, EPQ) and intelligence tests etc	

31	Number of students receiving financial assistance from college, university, government or other agencies	Nil
32	Details on student enrichment programmes (special lectures / workshops / seminar) with external experts	Nil

33	<b>Teaching methods adopted to improve student learning</b>	
	<ul style="list-style-type: none"> <li>• Group discussion method</li> <li>• Simulating methods</li> <li>• Debate</li> <li>• Lecturing with the help of audio visual aids such as LCD projector, slides and videos.</li> <li>• Field visits and training workshops</li> </ul>	

34	<b>Participation in Institutional Social Responsibility (ISR) and Extension activities</b>	
	<ul style="list-style-type: none"> <li>• Department of psychology provides counselling facility for the students those who face academic, social, and emotional challenges.</li> <li>• The Department of Psychology observed the World Mental Health Day 2013, on 9th October 2013 with a talk on “Mental Health and Elder Adults”. Short films were screened and tableaus were presented at the main gate.</li> <li>• The final year Psychology students and teachers visited and interacted with the students of ‘Pratheeksha Bhavan’ (a special school located in Irinjalakuda) on 23<sup>rd</sup> August 2014.</li> <li>• World Mental Health day 2014 was observed by Department of Psychology on 8<sup>th</sup> October 2014. A brief presentation about schizophrenia, exhibition of psychological assessment tools and a short film screening on mental health were conducted.</li> <li>• Psychology department students produced one short film regarding with mental health day theme ‘Living with schizophrenia’.</li> <li>• Inter class department quiz competition was conducted on 7<sup>th</sup> November 2014</li> <li>• Department of Psychology with the collaboration of department of Social Work organized AIDS day awareness rally and open wall painting in collaboration with Taluk hospital Irinjalakuda on 1<sup>st</sup> December 2014.</li> </ul>	



- Department has organized charitable visits to various rehabilitation institutions around Thrissur district to enhance social commitment among students.

35 SWOC analysis of the department and future plans	
<b>Strength</b>	<ul style="list-style-type: none"><li>• Discipline is unique from other subjects as it tries to understand human behaviour and causes</li><li>• Job oriented course, as it provides specialization in various areas</li></ul>
<b>Weakness</b>	<ul style="list-style-type: none"><li>• Lack of timely updation of syllabus</li><li>• Lack of opportunity for internships in prescribed syllabus</li></ul>
<b>Opportunity</b>	<ul style="list-style-type: none"><li>• Employability in various social institutions</li><li>• Incorporation of counselling skills</li><li>• The programme provides opportunities to explore areas like life skill development, personality development training, assessment of psychological attributes such as intelligence, personality, attitude and so on.</li></ul>
<b>Challenges</b>	<ul style="list-style-type: none"><li>• Vast theoretical syllabus with practical concern has to be finished with limited time period.</li><li>• Students' expectations about the course content may be different, so should maintain students' subject interest and their expectations.</li></ul>
<b>Future plans</b>	<ul style="list-style-type: none"><li>• Department is planning to get upgraded to a PG Department.</li><li>• Planning to conduct national level seminar/programmes in coming years.</li><li>• Planning to conduct more programmes of social relevance and giving more exposure to students on social needs and issues.</li></ul>



## Evaluative Report - Department of Hindi

1	Name of the department	Hindi		
2	Year of Establishment	1956		
3	Names of Programmes /Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.)	UG – Additional Language for all U.G programs - Aided and Unaided		
		PG - Nil		
		Research Programme - Nil		
4	Names of Interdisciplinary courses and departments involved	Name of Course	Departments Involved	
		Open Programme:	Nil	
		Add on Course:	Nil	
		Any other	Nil	
5	Annual/ Semester/choice based credit System(programme wise)	Choice Based Credit & Semester System (CCSS) for UG		
6	Participation of the department in the courses offered by other departments	Nil		
7	Courses in collaboration with other universities, industries, foreign institutions, etc.	Nil		
8	Details of courses/programmes discontinued (if any) with reasons	Nil		
9.	Number of Teaching posts		Sanctioned	Filled
		Professors	Nil	Nil
		Associate Professors	2	2
		Assistant Professors	Nil	Nil
		Guest Lectures	Nil	Nil

10	<b>Faculty Profile</b>					
	Name	Qualification	Designation	Specialization	Experience in years	Ph.D. Students guided
	Dr. Jayakrishnan K.M.	M.A.,MPhil.,Ph.D., P.G.D.T.	Associate Professor	Modern Hindi Literature, Comparative Literature Novel	21	Nil
	Ms. Sheeba Vargheese U.	M.A.,M.Phil., P.G.D.T.	Associate professor	Modern Hindi Literature	18	Nil
11	List of Senior Visiting Faculty	Dr. Thresiamma Joseph M.A., M.Phil., Ph.D.				

12	Percentage of lectures delivered and practical classes engaged by guest faculty (Programme wise)	Year	Aided	Unaided	PG
		2010-11	Nil	100	-
		2011-12	Nil	100	-
		2012-13	Nil	100	-
		2013-14	Nil	100	-
13	Student Teacher Ratio (programme wise)	Year	Core	Complementary	PG
		2013-14	Nil	50:1	-
14	Number of academic support staff (technical) and administrative staff		Sanctioned		Filled
		Academic support Staff	Nil		Nil
		Administrative Staff	Nil		Nil

15	<b>Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ MPhil/PG</b>	
	Name	Qualification



Dr. Jayakrishnan K.M.	M.A., M.Phil., Ph.D.
Ms. Sheeba Vargheese U.	M.A., M.Phil.

16	Number of faculty with ongoing projects from a) National b) International funding agencies and grants received	Nil
17	Departmental projects funded by DST-FIST; UGC, DBT, ICSSR, etc. and total grants received	Nil
18	Research Centre/facility recognized by the University	Nil

19	<b>Publications Details</b>											
A - Publication per faculty (B+C+D+G); B - Number of papers published in peer reviewed journals (national / international) by faculty; C - Number of publications listed in International Database/Citation Index; D - Books with ISBN/ISSN or Chapter in Books; E - Books Edited; F - Sessions Chaired; G - Publications in the proceedings of Seminars/Conferences; H- SNIP; I - SJR; J- Impact Factor; K-h index												
Name of faculty		A	B	C	D	E	F	G	H	I	J	K
Dr. Jayakrishnan K.M.		6	2	-	3	-	21	1	-	-	-	-
<b>Total</b>		<b>6</b>	<b>2</b>	<b>-</b>	<b>3</b>	<b>-</b>	<b>21</b>	<b>1</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
<b>Publications/Presentations by Students</b>											1	

20	Area of Consultancy and income generated	Nil
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21	<b>Faculty as members in National Committees, International Committees etc</b>	
	Faculty as members in	Name of the faculty
	National and International Committees	-
	Editorial Boards	Dr. Jayakrishnan K.M. Associate Editor, Vikalp Tri-monthly ISSN 2231-6191

22	Student Projects	NA
23	Awards Recognitions received by faculty and students	Nil
24	List of eminent academicians and scientists/ visitors to the department	Nil
25	Seminar/Conference/ Workshops organized and the source of funding	Nil
26	Student Profile programme/course wise	NA
27	Diversity of Students	NA
28	How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defence services, etc.	NA
29	Student Progression	NA

30	<b>Details of Infrastructural facilities</b>	
a) Library	Hindi books in College Library - 3,387 Hindi Literature and general books - 66 books in reference section	
b) Internet Facilities for staff and students	Yes	
c) Class room with ICT facility	Nil	
d) Laboratories	Nil	

31	Number of students receiving financial assistance from college, university, government or other agencies	Nil
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32	Details on student enrichment programmes (special lectures / workshops / seminar) with external experts	Nil
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33	<b>Teaching methods adopted to improve student learning</b>	
	<ul style="list-style-type: none"> <li>Along the lecturing classes students are requested to visit the concerned academic websites links and you-tube links</li> </ul>	

34	<b>Participation in Institutional Social Responsibility (ISR) and Extension activities</b>	
	<p><b>Dr. Jayakrishnan K.M.</b></p> <ul style="list-style-type: none"> <li>Visiting Fellow under DRS programme Phase III- Department of Hindi, Cochin University of Science and Technology, from 15-3-2010 to 19-3- 2010.</li> <li>A Talk given at the Kendriya Vidyalaya Thrissur on 30<sup>th</sup> September 2010 on the occasion of the culmination of Hindi day celebrations.</li> <li><i>Aarutethanuee Melvilasam</i>, an article published in Madyamam, Malayalam weekly in May 23. 2011.</li> <li>Conducted a class on Paristhithik Pad for the P.G. students of the Department of Hindi, Sree Sankara University of Sankrit, Regional Centre, Thrissur on 27<sup>th</sup> September 2013.</li> <li>Attended the U.G.C. Academic Staff College, University of Calicut on 11-12-2013 as a resource person in the 9<sup>th</sup> Refresher Course in Hindi conducted by the U.G.C. A.S.C.</li> <li>A talk in Hindi “<i>Vargh Paheliyommemulajthehuye Hindi Pravaktha</i>” has been transmitted by All India Radio, Thrissur on 7-3-2013.</li> <li>A Book Review on the Malayalam novelist Sethu’s Aliya has been recorded by the All India Radio Thrissur in the month of March 2015, which is, broadcasted in March 2015.</li> </ul> <p><b>Ms. Sheeba Vargheese U.</b></p> <ul style="list-style-type: none"> <li>Women’s Development Cell Convener of College - 2009 to 2012</li> <li>Women’s Development Cell Executive Committee member - 2012 onwards</li> </ul>	

35	<b>SWOC analysis of the department and future plans</b>	
<b>Strength</b>	<ul style="list-style-type: none"> <li>Fully qualified staff</li> <li>Enough students to study Hindi as second language</li> </ul>	
<b>Weakness</b>	<ul style="list-style-type: none"> <li>No degree and postgraduate Hindi main courses.</li> </ul>	
<b>Opportunity</b>	<ul style="list-style-type: none"> <li>Degree B.A. and M.A. Hindi programmes</li> </ul>	
<b>Challenges</b>	<ul style="list-style-type: none"> <li>Aided programmes are not allowed by the Government programmes can be started in self-financing structure.</li> </ul>	
<b>Future plans</b>	<ul style="list-style-type: none"> <li>Plan to conduct seminar and workshop in translation and comparative literature.</li> <li>Intending to apply for the Major and Minor research projects of U.G.C.</li> </ul>	



## Evaluative Report - Department of Sanskrit

1	Name of the department	Sanskrit		
2	Year of Establishment	1976		
3	Names of Programmes /Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.)	UG -Additional language for UG students		
		PG- Nil		
		Research Programme - Nil		
4	Names of Interdisciplinary courses and departments involved	Name of Course	Departments Involved	
		Open Programme:	Nil	
		Add on Course:	Nil	
		Any other	Nil	
5	Annual/ Semester/choice based credit system(programme wise)	Choice Based Credit and Semester System (CCSS) for UG and PG		
6	Participation of the department in the courses offered by other departments	Nil		
7	Courses in collaboration with other universities, industries, foreign institutions	Nil		
8	Details of courses/programmes discontinued (if any) with reasons	Nil		
9	Number of Teaching posts		Sanctioned	Filled
		Professors	Nil	Nil
		Associate Professors	Nil	Nil
		Assistant Professors	1	1
		Guest Lectures	Nil	Nil

10	<b>Faculty Profile</b>					
	Name	Qualification	Designation	Specialization	Experience in Years	Ph.D. Students guided
	Dr. Vinitha E.	M.A., Ph.D., B.Ed.	Assistant Professor	Sanskrit Vyakarana	5	Nil
11	List of Senior Visiting Faculty				Nil	

12	Percentage of lectures delivered and practical classes engaged by guest faculty (Programme wise)	Year	Core	Complementary	PG
		2010-11	Nil	Nil	-
		2011-12	Nil	Nil	-
		2012-13	Nil	Nil	-
13	Student Teacher Ratio (programme wise)	Year	Core	Common course	PG
		2013-14	Nil	1:50	-
14	Number of academic support staff (technical) and administrative staff			Sanctioned	Filled
		Academic support Staff		Nil	Nil
		Administrative Staff		Nil	Nil

15	<b>Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ MPhil/PG</b>	
	Name	Qualification
	Dr. Vinitha E.	M.A., B.Ed., Ph.D.

16	Number of faculty with ongoing projects from a) National b) International funding agencies and grants received:	Name of Principal Investigator	Details of Grant	
			Funding Agency	Grant received



		Dr. Vinitha E.	UGC	1.5 Lakhs
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17	Departmental projects funded by DST-FIST; UGC, DBT, ICSSR, etc. and total grants received	Nil
18	Research Centre/facility recognized by the University	Nil

19	<b>Publications Details</b>											
A - Publication per faculty (B+C+D+G); B - Number of papers published in peer reviewed journals (national / international) by faculty; C - Number of publications listed in International Database/Citation Index; D - Books with ISBN/ISSN or Chapter in Books; E - Books Edited; F – Sessions Chaired; G - Publications in the proceedings of Seminars/Conferences; H- SNIP; I – SJR; J- Impact Factor; K-h index												
	Name of faculty	A	B	C	D	E	F	G	H	I	J	K
	Dr. Vinitha E.	-	-	-	-	-	1	-	-	-	-	-
	<b>Total</b>	-	-	-	-	-	<b>1</b>	-	-	-	-	-

20	Area of Consultancy and income generated	Nil
21	Faculty as members in National committees, International committees etc.	Nil
22	Student Projects	NA
23	Awards Recognitions received by faculty and students	Nil
24	List of eminent academicians and scientists/ visitors to the department	Nil
25	Seminar/Conference/ Workshops organized and the source of funding	Nil
26	Student Profile programme/course wise	NA
27	Diversity of Students	NA
28	How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defence services, etc.	NA
29	Student Progression	NA

30	<b>Details of Infrastructural facilities</b>	
	a) Library	81 Books in College Library.
	b) Internet Facilities for staff and students	Yes. (Wi-Fi facility for Staff).
	c) Class room with ICT facility	Nil
	d) Laboratories	NA

31	Number of students receiving financial assistance from college, university, government or other agencies	Nil
32	Details on student enrichment programmes (special lectures / workshops / seminar) with external experts	Nil

33	<b>Teaching methods adopted to improve student learning</b>	
	<ul style="list-style-type: none"> <li>• Providing individual attention to the students.</li> <li>• Group discussion.</li> </ul>	

34	<b>Participation in Institutional Social Responsibility (ISR) and Extension activities</b>	
	<ul style="list-style-type: none"> <li>• NSS Programme Officer from 2009 to 2013.</li> <li>• Fine-Arts Co-ordinator from 2013 onwards.</li> <li>• Delivered a talk on Kalayum Manavikamoolyanganalum at GGHS Chalakkudy.</li> <li>• Sloka Chanting sessions are organized in traditional style for students in the locality.</li> </ul>	





- Recited two Malayalam Poems in Kavyasandhya organized by Govt. Sanskrit College, Trippunithura.

35. SWOC analysis of the department and future plans	
<b>Strength</b>	<ul style="list-style-type: none"><li>• Faculty with Ph.D.</li><li>• UGC sponsored minor project.</li></ul>
<b>Weakness</b>	<ul style="list-style-type: none"><li>• Offered only as a second language</li><li>• Less number of students opting for the course</li><li>• Single faculty department.</li></ul>
<b>Opportunity</b>	<ul style="list-style-type: none"><li>• Starting programmes in the UG and PG level.</li><li>• Taking up new projects.</li></ul>
<b>Challenges</b>	<ul style="list-style-type: none"><li>• It is difficult to get a programme in the aided stream.</li><li>• Running the programme successfully if started as self financing programme</li></ul>
<b>Future plans</b>	<ul style="list-style-type: none"><li>• To start B.A. General and M.A. Sanskrit Course</li><li>• Giving Classes for chanting slokas like Bhagavad Gita, Narayaneeyam etc.</li><li>• To empower vocabulary, teachings of Amarakosa and Basic Sanskrit grammar.</li><li>• Providing Sanskrit Sastra Classes.</li></ul>



## Evaluative Report - Department of Physical Education

1	Name of the department	Physical Education		
2	Year of Establishment	1956		
3	Names of Programmes /Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.)	Physical training for all students of the college and coaching for various sports and games		
4	Names of Interdisciplinary courses and departments involved	Nil		
5	Annual/ Semester/choice based credit system(programme wise)	Nil		
6	Participation of the department in the courses offered by other departments	Nil		
7	Courses in collaboration with other Universities, industries, foreign institutions	Nil		
8	Details of courses/programmes discontinued (if any) with reasons	Nil		
9	Number of Teaching posts		Sanctioned	Filled
		Professors	Nil	Nil
		Associate Professors	2	2
		Assistant Professors	Nil	Nil
		Guest Lectures	Nil	Nil

10	<b>Faculty Profile</b>					
	Name	Qualification	Designation	Specialization	Experience in years	Ph.D. Students guided
	Mr. K.J. Thomas	M.P.Ed.	Associate Professor, HOD	-	26	Nil
	Dr. Jacob George	M.P.E., M.Phil.,Ph.D.	Associate Professor	-	20	Nil
11	List of Senior Visiting Faculty					Nil
12	Percentage of lectures delivered and practical classes engaged by guest faculty					Nil
13	Student Teacher Ratio					NA

14	Number of academic support staff (technical) and administrative staff		Sanctioned	Filled
		Academic support Staff	Nil	Nil
		Administrative Staff	Nil	Nil

15	<b>Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ MPhil/PG</b>	
	Name	Qualification
	Mr. K.J. Thomas	M.P.Ed.
	Dr. Jacob George	M.P.E., M.Phil.,Ph.D.

16	Number of faculty with ongoing projects from a) National b) International funding agencies and grants received:	Name of Principal Investigator	Details of Grant	
		Dr. Jacob George (Completed)	Funding Agency	Grant received
			UGC	1.2 Lakhs

17	Departmental projects funded by DST-FIST; UGC, DBT, ICSSR, etc. and total grants received	Nil
18	Research Centre/facility recognized by the University	Nil



19	Publications Details											
A - Publication per faculty (B+C+D+G); B - Number of papers published in peer reviewed journals (national / international) by faculty; C - Number of publications listed in International Database/Citation Index; D - Books with ISBN/ISSN or Chapter in Books; E - Books Edited; F – Sessions Chaired; G - Publications in the proceedings of Seminars/Conferences; H- SNIP; I – SJR; J- Impact Factor; K-h index												
Name of faculty		A	B	C	D	E	F	G	H	I	J	K
Dr. Jacob George		-	-	-	-	-	3	-	-	-	-	-
<b>Total</b>		-	-	-	-	-	3	-	-	-	-	-

20	Area of Consultancy and income generated		Nil
21	Faculty as members in National committees, International committees etc.	<b>Mr. K.J. Thomas</b> Member, 12 <sup>th</sup> five year plan for sports and physical education working group	
22	Student Projects		NA
23	Awards Recognitions received by faculty and students		Nil

24	List of eminent academicians and scientists/ visitors to the department	
Name	Designation	
Mr. Jiji Thomson	Director General of SAI	
Dr. G. Kishore	Director, SAI, Thiruvananthapuram	
Mr. Ramachandran	Olympian	
Mr. Abdul Hakkim	Indian International Football Player	

25	Seminar/Conference/ Workshops organized and the source of funding	Nil
26	Student Profile programme/course wise	NA
27	Diversity of Students	NA
28	How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defence services, etc.	NA
29	Student Progression	NA

Details of Infrastructural facilities		
30	a) Library	573 Physical Education books in College Library
	b) Internet Facilities for staff and students	Yes
	c) Class room with ICT facility	Nil
	d) Laboratories	Nil
	e) Other Facilities	<ul style="list-style-type: none"> <li>• 400 meters track</li> <li>• Stadium</li> <li>• Courts for football, hockey, volleyball, handball, basketball, kho-kho and kabbadi</li> <li>• Fitness Centre</li> <li>• 10 meter shooting range</li> </ul>

31	Number of students receiving financial assistance from college, university, government or other agencies	Nil
32	Details on student enrichment programmes (special lectures / workshops /	Nil



	seminar) with external experts	
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33	<b>Teaching methods adopted to improve student learning</b>
<ul style="list-style-type: none"> <li>• Training with best coaches</li> <li>• Coaching camps</li> </ul>	

34	<b>Participation in Institutional Social Responsibility (ISR) and Extension activities</b>
Name of Faculty	
<b>Mr. K.J. Thomas</b> <ul style="list-style-type: none"> <li>• Member, Academic Council, University of Calicut 2011-2014</li> <li>• Member, Physical Education UG Board of studies, University of Calicut.</li> <li>• Member, 12<sup>th</sup> five year plan sports and physical education working group.</li> <li>• State Committee member, Kerala Athletic Association.</li> <li>• Secretary, District Athletic Association.</li> <li>• Executive member, District football association.</li> <li>• President, Calicut University Physical Education Teachers Association.</li> <li>• Vice President, District basketball association.</li> </ul>	
<b>Dr. Jacob George</b> <ul style="list-style-type: none"> <li>• Member, Physical Education PG Board of studies, University of Calicut.</li> <li>• NCC officer-Lt. from the year 2000 onwards</li> <li>• Men's Hostel Warden</li> </ul>	

35	<b>SWOC analysis of the department and future plans</b>
<b>Strength</b>	<ul style="list-style-type: none"> <li>• Our students are representing various sports teams at National, State and University levels.</li> <li>• College sports teams got prizes for a range of events.</li> <li>• Sports hostel for girls and boys.</li> <li>• Competent coaches.</li> <li>• Good training facilities for sports.</li> <li>• Sound financial support from college management and local sponsors.</li> </ul>
<b>Weakness</b>	<ul style="list-style-type: none"> <li>• Difficult to manage sports and academics of the students.</li> <li>• Tight schedule of the semester system.</li> <li>• Clash off exam dates and sports competitions that affect in the performance of the students.</li> <li>• Inadequate campus recruitment of sports personnel.</li> </ul>
<b>Opportunity</b>	<ul style="list-style-type: none"> <li>• Representing sports teams at National, State and University levels.</li> </ul>
<b>Challenges</b>	<ul style="list-style-type: none"> <li>• Less job opportunities in Kerala.</li> <li>• Raising funds to meet the growing needs.</li> <li>• Insufficient time due to tight schedule of semester system.</li> </ul>
<b>Future plans</b>	<ul style="list-style-type: none"> <li>• Padma Bushan Fr. Gabriel CMI Centenary International Indoor Stadium.</li> <li>• Organizing various sports/games events (at District level/University level/State level).</li> <li>• 400-meter synthetic track.</li> </ul>



### *Abbreviations*

<b>AIACHE</b>	All India Association of Christian Higher Education
<b>AICUF</b>	All India Catholic University Federation
<b>APRIM</b>	Asia Pacific Regional IAU Meeting
<b>ASAP</b>	Additional Skill Acquisition Programme
<b>ASHA</b>	Accredited Social Health Activist
<b>ASIACALL</b>	The Asia Association of Computer Assisted Language Learning
<b>BPE</b>	Bachelor of Physical Education
<b>CAP</b>	Centralized Admission Process
<b>CCRF</b>	Christ College Research Fellowship
<b>CERAM</b>	Centre for Earth Research and Management
<b>C-MET</b>	Centre for Materials for Electronics Technology
<b>CMFRI</b>	Central Marine Fisheries Research Institute
<b>CMSS</b>	Centre for Mathematical and Statistical Sciences
<b>CMSS</b>	Central Medical Services Society
<b>CSA</b>	Catholic Students Association
<b>CSS</b>	Compulsory Social Service
<b>CUMI</b>	Carborundum Universal Limited (CUMI)
<b>CUSAT</b>	Cochin University of Science and Technology
<b>DST</b>	Department of Science and Technology
<b>FCBS</b>	Foundation for Capacity Building in Science
<b>FIST</b>	Fund for Improvement of S&T Infrastructure in Universities and Higher Educational Institutions
<b>ICA</b>	International Congress of Archaeology
<b>ICDS</b>	Integrated Child Development Scheme



<b>IEEE</b>	The Institute of Electrical and Electronics Engineers
<b>IICT</b>	Indian Institute of Chemical Technology
<b>IISER</b>	Indian Institute of Science Education and Research
<b>IMRF</b>	International Multidisciplinary Research Foundation
<b>INSPIRE</b>	Innovation in Science Pursuit for Inspired Research
<b>KAMCO</b>	Kerala Agro Machinery Corporation Ltd.
<b>KFRI</b>	Kerala Forest Research Institute
<b>KILA</b>	Kerala Institute of Local Administration
<b>KSCSTE</b>	Kerala State Council for Science, Technology and Environment
<b>LIAG</b>	Leibniz Institute for Applied Geophysics
<b>LSG</b>	Local Self-Government
<b>MIT</b>	The Massachusetts Institute of Technology
<b>MNREGP</b>	Mahatma Gandhi National Rural Employment Guarantee Programme
<b>NAPT</b>	National Academy of Pre- Recruitment Training.
<b>NCBI</b>	National Center for Biotechnology Information
<b>NCERT</b>	National Council of Educational Research and Training
<b>NELTA</b>	Nepal English Language Teachers Association
<b>NEMO</b>	Numerical Electromagnetic Modeling and Optimization for RF, Microwave and Terahertz Applications
<b>NIEDS</b>	National Integration Empowerment and Development Society
<b>NIIST</b>	National Institute for Interdisciplinary Science and Technology
<b>NIT</b>	National Institute of Technology
<b>NMAMIT</b>	Nitte Mahalinga Adyanthaya Memorial Institute of Technology
<b>NME-ICT</b>	National Mission on Education through Information and Communication Technology



<b>NPTEL</b>	National Programme on Technology Enhanced Learning
<b>OPAC</b>	Online Public Access Catalogue
<b>PTAC</b>	Participation of Teachers in Academic Conferences in India
<b>SERB</b>	Science and Engineering Research Board



## *Glossary*

<i>Bhoomithrasena</i>	A group of students dedicated for Environmental Protection
<i>Ezhuthanipuraskaram</i>	An Award instituted by non-residential Keralites of Coimbatore for efforts in popularizing Malayalam language.
<i>Green valley</i>	An afforested zone developed and protected by NSS volunteers towards maintaining a green campus.
<i>Haritha Puraskaram</i>	An award instituted by University of Calicut for promoting Green Campus in its affiliated colleges.
<i>Harithavalkaranam</i>	An attempt to re-forest the vacant areas of the campus to make a green campus.
<i>IT Vijnan</i>	A novel and innovative program of Christ College where in intensive IT training is given to each and every student of the first year UG course with an aim to achieve and maintain a certain percentage IT literacy in the College.
<i>Keralappiravi</i>	Official day of formation of Kerala state celebrated on November 01.
<i>Kol</i>	It's a land area submerged in water throughout the year and being used for paddy cultivation.
<i>Nakshthraavanam</i>	Garden of plants having astrological significance.
<i>Onam</i>	A regional festival celebrated by people of all religions of Kerala.
<i>Pookkalam</i>	Rangoli made out of seasonal flowers during Onam in Kerala.
<i>Santhisthal</i>	A plantation of rare, endangered and threatened species in the campus.
<i>Santhwanasparsam</i>	An initiative runs by the College to provide free noon-meals for patients at Taluk Hospital, Irinjalakuda.
<i>Sarvamathaprarathana</i>	Offering prayer inclusive of elements from all religions.
<i>Thadayana</i>	Concrete/ earthen structure used to retain ground water in-order to enhance water percolation.





# *Documents and Certificates*





**राष्ट्रीय मूल्यांकन एवं प्रत्यायन परिषद्**

विश्वविद्यालय अनुदान आयोग का स्वायत्त संस्थान

**NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL**

*An Autonomous Institution of the University Grants Commission*

# *Certificate of Accreditation*

*The Executive Committee of the  
National Assessment and Accreditation Council  
on the recommendation of the duly appointed*

*Peer Team is pleased to declare the*

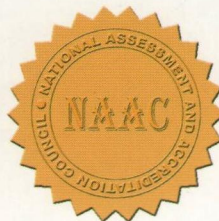
***Christ College***

*Irinjalakuda, affiliated to Calicut University, Kerala as*

***Accredited***

*at the B<sup>++</sup> level.*

*Date : September 16, 2003*



*Urvasa*  
**Director**

1. This certification is valid for a period of *Five* years with effect from September 16, 2003.
2. An institutional score (%) in the range of 55-60 denotes C grade, 60-65 -C\*grade, 65-70 - C\*\*grade, 70-75 - B grade, 75-80 -B\* grade, 80-85 - B\*\* grade, 85-90 - A grade, 90-95 - A\* grade, 95-100 - A\*\* grade (upper limits exclusive).





राष्ट्रीय मूल्यांकन एवं प्रत्यायन परिषद

विश्वविद्यालय अनुदान आयोग का स्वायत्त संस्थान

**NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL**

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# *Certificate of Accreditation*

*The Executive Committee of the  
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on the recommendation of the duly appointed  
Peer Team is pleased to declare the  
Christ College  
Irinjalakuda, affiliated to University of Calicut, Kerala as  
Accredited  
with CGPA of 3.02 on four point scale  
at A grade  
valid up to December 30, 2014*

*Date : December 31, 2009*



*HARPREET*  
Director





भारत सरकार

राष्ट्रीय अल्पसंख्यक शैक्षणिक संस्था आयोग

GOVERNMENT OF INDIA

NATIONAL COMMISSION FOR MINORITY EDUCATIONAL INSTITUTIONS

प्रथम तल, जीवन तारा भवन, 5, संसद मार्ग,  
पटेल चौक, नई दिल्ली-110001

1st Floor, Jeevan Tara Building, 5, Sansad Marg,  
Patel Chowk, New Delhi-110001

F. No. 1420 OF 2006

Dated.....

ON CONSIDERATION OF THE DOCUMENTARY EVIDENCE PRODUCED BEFORE THE COMMISSION, THE COMMISSION IS SATISFIED THAT CHRIST COLLEGE, P.O. IRINJALAKUDA NORTH, THRISSUR, KERALA, MANAGED BY THE CHRIST MONASTERY OF DEVAMATHA PROVINCE OF THE CONGREGATION OF CARMELITES OF MARY IMMACULATE, EXCLUSIVELY IS A MINORITY EDUCATIONAL INSTITUTION WITHIN THE MEANING OF SECTION 2 (g) OF THE NATIONAL COMMISSION FOR MINORITY EDUCATIONAL INSTITUTIONS ACT 2004. CONSEQUENTLY, IT IS HEREBY DECLARED THAT THE AFORESAID COLLEGE IS A MINORITY EDUCATIONAL INSTITUTION COVERED UNDER ARTICLE 30 OF THE CONSTITUTION OF INDIA.

GIVEN UNDER MY HAND AND THE SEAL OF THE COMMISSION ON THIS 16<sup>TH</sup> DAY OF JULY 2008.



*R. Renganath*  
(R. RENGANATH)  
SECRETARY

सचिव/Secretary  
राष्ट्रीय अल्पसंख्यक शैक्षणिक संस्था आयोग  
NATIONAL COMMISSION FOR  
MINORITY EDUCATIONAL INSTITUTIONS  
भारत सरकार, नई दिल्ली  
Govt. of India New Delhi







**UNIVERSITY OF CALICUT**  
(College Development Council)

Grams : UNICAL  
Fax : 0494-2400269  
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Calicut University P.O.,  
Pin 673 635  
Kerala (India)

No. CDC/B<sub>2</sub>/Misc./1861/2004

Date: 05-10-04

**To whom it may concern**

This is to certify that the Christ College, Irinjalakuda is an aided college affiliated to the University of Calicut and included under section 2(F) & 12(B) of the UGC Act 1956, as per the list received from the UGC in this regard.

The Certificate is issued for submitting to the UGC along with the application for the construction of Women's hostel.

  
DIRECTOR





# CHRIST COLLEGE IRINJALAKUDA

(Accredited by NAAC with 'A' Grade)

Thrissur – 680 125, Kerala, Tel: 0487-2825258, Fax: 2831552,  
Website: www.christcollegeijk.edu.in E-mail: christcollegeijk@gmail.com.


## CERTIFICATE

This is to certify that the Christ College Irinjalakuda, Thrissur, Kerala has fulfilled all norms stipulated by the affiliating University. Also it is certified that the Affiliation and recognition of the College is permanent

PS: The Certificate given to NAAC is also displayed on College Website.

Date : 08-04-2015  
Place: Irinjalakuda



  
PRINCIPAL  
FR. DR. JOSE Y. M.  
PRINCIPAL  
CHRIST COLLEGE IRINJALAKUDA





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## DECLARATION BY THE HEAD OF THE INSTITUTION

I certify that the data included in this Self Study Report (SSR) are true to the best of my knowledge. The SSR is prepared by the Institution after internal discussions, and no part thereof has been outsourced.

Date : 08-04-2015  
Place: Irinjalakuda



  
PRINCIPAL  
Rev. Fr. Dr. Jose T.M.CMI



## **MEMBERS OF IQAC**

1. Fr. Dr. T. M. Jose, Chairman.
2. Dr. Davis Antony Mundassery, Coordinator.
3. Prof. Babu Antony Menachery
4. Prof. K. A. Davis
5. Dr. K. Chandran
6. Dr. R. V. Rajan
7. Dr. B. P. Aravinda
8. Dr. V. D. John
9. Prof. V. P. Anto
10. Dr. Balu T. Kuzhivelil
11. Dr. V. P. Joseph
12. Prof. P. D. Tomy
13. Dr. Tessy Paul
14. Prof. Sheeba Varghese
15. Prof. Josheena Jose
16. Sr. V. O. Rosy
17. Prof. Tintumol Sunny
18. Dr. Radha P. S.
19. Shri. V. D. Varghese, Office Superintendent.
20. Shri. T. P. Varghese, Librarian.
21. Ms. Preeji K. P. Research Scholar - Students' representative.
22. Dr. K. V. Radhakrishnan, Senior Scientist, NIIST, Thiruvananthapuram.
23. Dr. B. Narayana, Registrar, Mangalore University.
24. Shri. John Francis K, MD, KLF Oil Mills.
25. Shri. Davis Kokkat, O S A Vice President.
26. Fr. Dr. Jolly Andrews - Bursar.
27. Adv. Franson Michael, P T A Vice President.
28. Smt. Marykutty Joy, Chairperson, Irinjalakuda Municipality.