

Office: 0480 2825258

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CRITERION	II	Teaching-Learning and Evaluation
KEY INDICATOR	2.3	Teaching - Learning Process
METRIC	2.3.1	Student-centric methods such as experiential learning, participative learning and
		problem-solving methodologies are used for enhancing learning experiences:

PG Department of Botany

Participative Learning Program

Short Bio of the Dept: The MSc Botany Programme was started in 2013 with "Environmental Biology and Biodiversity Conservation" and "Genetic Engineering" as special papers. The Department has also implemented the Choice-based Credit System for grading M.Sc., which offers flexibility in the structuring and assessment of courses. The Department has Tissue Culture and Biochemistry labs that are well equipped with latest instruments. The Department also maintains an enormous collection of museum and herbarium specimens that facilitate practical learning of the subject and a connection with the specimens of nature that student's study.

Participative Learning

1.Participation in International seminar

Program Objectives / Expected outcomes:

- To learn about new trends and techniques in research
- Students get a chance to interact with scientists

Program Report:

Third semester MSc. Botany Students attended an international seminar organised by Carmel College (autonomous) Mala, Thrissur Dist on 02-11-2023. The title of seminar was "evaluating the prospectus of biology. Students learned about new trends and techniques in Biological research.

- Students learned about new trends in biology
- Students got a chance to interact with scientists.



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2.Participation in National seminar

Program Objectives / Expected outcomes:

- To learn about new trends and techniques in research.
- Students get a chance to interact with scientists.

Program Report:

Second semester MSc. Botany Students attended a two day National seminar organised by MES Asmabi College, Kodungallur Thrissur Dist on 18-01-2024. The title of seminar was Biodiversity and climate change". Students learned about biodiversity on earth and how climate change affect the biodiversity.

- Students learned about biodiversity and climate change.
- Students got a chance to interact with scientists.



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3. Participation in observation skill programme; Psilotum hunt

Program Objectives / Expected outcomes:

- To enhance observation skill of students.
- To encourage the students to observe nature.

Program Report:

MSc. Botany Students attended the Programme. One student from each department won the competition. A Prize was handed over by our Coordinator, Prof. E.J Vincent.2023.

- Students Learned to observe nature
- Students got more information about plants.



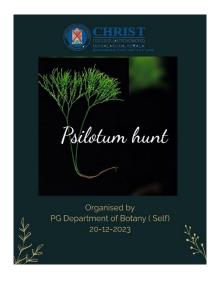
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Experiential Learning Program

1.Organizing and participating in regional talk and book launching ceremony

Program Objectives / Expected outcomes:

- To bring everyone together based on their interests and build relations.
- To create connections, expand skills, and explore different elements of university life while making lifelong friends.
- Developing organizing skill.
- Improving anchoring skill.
- Encourage group activities

Program Report:

Third MSc. Botany Students organized a regional talk and book launching Programme on 05-01-24. The title of the talk was "diversity and distribution of bat flowers". Book launching ceremony of Prof.E.J Vincent et.al were also done.

Programme attained outcome:

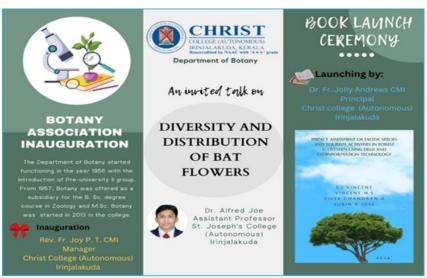
• Students Learned about bat flowers and their distribution.

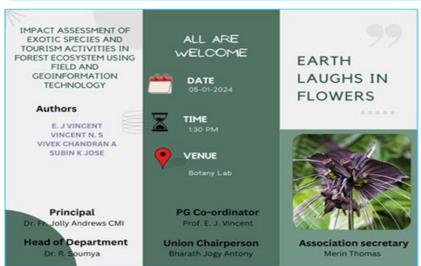


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2.Institutional Visits

Program Objectives / Expected outcomes:

- To learn about working environment, new technologies and lab instruments
- To interact with experts of various discipline.

Program Report:

Third MSc. Botany Students visited Kerala Agriculture University, Mannuthy on 23-06-23 with teachers. Students visited plant pathology lab, tissue culture lab, microbiology lab, plant breeding department and Horticulture department.

- Students learnt about various technologies and instruments in agricultural research
- Interacted with experts



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		problem solving memouologies are used for emaneing fearining experiences.









3.Algae collection trip

Program Objectives / Expected outcomes:

• To learn about habitat and features of marine algae



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- To learn about ecology and distribution of marine algae.
- To learn about algal herbarium preparation.

Program Report:

Second MSc. Botany Students visited Thikkodi beach, Kozhikode district on 06-03-24 for algae collection with teachers. Students collected various algal species and prepared algal herbarium.

- Students learnt about habit and morphological features of algae.
- Prepared algal herbarium.





Algal herbarium preparation



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4. Angiosperm Plant collection trips.

Program Objectives / Expected outcomes:

- To learn about habitat and features of Angiosperms
- To learn about ecology and distribution of Angiospems
- To teach students to visualize data they learn in class. Herbaria are essential for the study
 of plant taxonomy as well as they preserve a historical record of change in vegetation over
 time.

Program Report:

Third and Second MSc. Botany Students visited Peruvanmala near kacheri, Thrissur district on 16-6-23 and 7-11-23 and Munnar on 12-12-23 for plant collection. Students collected various plant species including endemic plants and prepared herbarium.

- Students learnt about habit and morphological features of plants
- Prepared plant herbarium.





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TAXONOMY COLLECTION TRIP - MUNNAR, IDUKKI







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Visit to ecologically important area - Njarakkal





5.Internship

Program Objectives / Expected outcomes:

- Explore career alternatives
- Integrate theory and practice.
- Assess interests and abilities in their field of study.
- Develop communication, interpersonal and other critical thinking
- Build networks

Program Report:

Fourth MSc. Botany Students did their internship on various research institutes. Duration of the internship was 3 months.

Programme attained outcome:

• Students learnt about new technologies in biological research Interacted with scientists.



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Pharmacological Analysis: Sitaram Ayurveda (P) Limited. Nedupuzha. Thrissur, Kerala











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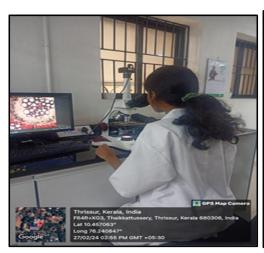
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Pharmacological Analysis: Vaidyaratnam Oushadhasala, Thaikkattussery, Thrissur, Kerala.











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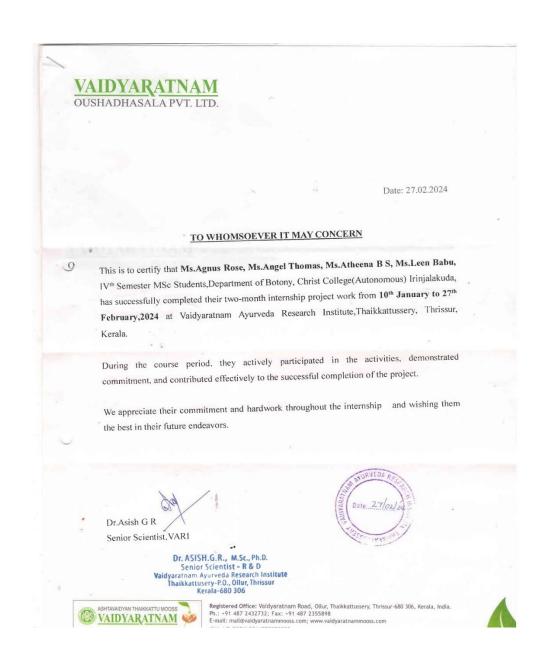




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Sitaram Ayurveda (P) Limited (Formerly known as Sitaram Ayurveda Pharmacy Ltd.)

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QUALITY CONTROL DEPARTMENT

AYUSH Lie No 01/48/2021 email quastiaramsiviryeda com mob =91/95678880111

Ref SAPL/QC/2024/003

Date 20/02/2024

This is to certify that Ms. Aneena Manuel, Mrs. Pooja, and Ms. Shahana Shamseer, IVah Semester MSc Students, Department of Botany, Christ College (Autonomous) Irinjalakuda. has successfully completed their one-month internship project work from 15th January to 16th February, 2024 at Quality Control Department (Accredited by Dept. of AYUSH), Sitaram Ayurveda (P) Ltd., Thrissur, Kerala

During the course period, they actively participated in the analysis activities, demonstrated commitment, and contributed effectively to the successful completion of the project

We appreciate their commitment and hard work throughout the internship project and wishing them the best in their future endeavors

For Sitaram Ayurveda (P) Ltd.,

BIJESHMON PP Manager - Quality Control (Ayush Lic. No: 01/48/2021) Sitaram Ayurveda (P) Limited Thrissur, Kerala - 680 007







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5.Certificate courses

Program Objectives / Expected outcomes:

- To understand different environmental analysis tools.
- To familiarize different analytical instruments.
- To get technical expertise in water analysis

Program Report:

With the objective of enhancing the all-round ability of students and raising their competence for the job market, the Department organizes Value-added courses for our Post graduate students. These courses are oriented towards developing graded skills and personalities beyond the regular curriculum of the Program.

Programme attained outcome:

• Students learnt about analytical instruments and expert in water analysis.



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COURSE STRUCTURE

35 Hours (25 Hours Theory + 10 Hours Practical)

COURSE FEE

Rs.1000/-

COURSE DURATION

6 January 2022- 30 March 2022

ABOUT COLLEGE

Christ College was started in the year 1956 by the Devamatha province of the Carmellities of Mary Immaculate (CMI). an indigenous Religious Congregation. founded in 1831, by St. Cyriac Elias Chavara, a saintly priest and versatile genius, who envisioned education as a tool for liberation and development. Christ College has been affiliated to Calicut University and re accredited by NAAC with the highest grade 'A'. Christ College is dedicated to Christ and has the Motto 'll eveloth' Prabha which dedicated to Christ and has the Motto "jeevith Prabha which means "light of Life". Christ College is part of a century old tradition of CMI education that is at its heart, Christian and specifically Catholic. It offers an ideal vision of education that is aware of and responsive to the challenges of the nation's present situation.

DEPARTMENT OF BOTANY

The MSc Botany Programme was started in 2013 as a self-financing basis in the affiliation of university of Calicut. The department offers MSc Botany with "Environmental biology and biodiversity conservation" and "Genetic engineering" as special papers which is in affiliation with University of Calicut. The Department has also implemented the Choice- based Credit System for grading M.Sc., which offers flexibility in the structuring and assessment of courses. The Department has Tissue Culture and Biochemistry labs that are well equipped with latest instruments. Projection facilities are also available in classrooms to facilitate student learning with visual representation of concepts discussed in class. The Department also maintains an enormous collection of museum and herbarium specimens. These collections facilitate in practical learning of the subject and in forming a connection with the specimens of nature

Course co-ordinator

Prof. E. J. Vincent Dr. Subin K. Jose

Offered by Department of Botany Eligibility

Degree



COURSE OBJECTIVES:

- To provide students an understanding of the expectations of industry.
- To improve employability skills of students.
- . To bridge the skill gaps and make students industry ready
- To provide an opportunity to students to develop inter-disciplinary skills.
- . To mould students as job providers rather than job seekers.

COURSE OUTCOME:

- To understood different environmental analysis tools
- To familiarize different analytical instruments
- · To got technical expertise in water analysis





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6.Exhibition to school students

Program Objectives / Expected outcomes:

- To enhance organization skill
- To develop communication skill
- To enhance knowledge in science field.

Program Report:

Second semester MSc. Botany students organized an exhibition to school students on 16-01-24. The students explained about scope of botany, lab specimens, lab instruments, mushroom



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cultivation, plant products, various types of plants and their ecology etc.

Programme attained outcome:

• Students learnt how to organise a programme and share knowledge.



