

CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA



ACADEMIC ADMINISTRATIVE AUDIT (AAA)

SELF STUDY REPORT

NAME OF THE DEPARTMENT:

BOTANY (AIDED)

PERIOD:

2019 JUNE-2020 DEC

CATEGORY:

C

The Departments shall enter the necessary data in this booklet itself. For positive responses the details asked need be given only in a very brief manner. All claims must be supported by documentary evidence.

DEPARTMENT GRADING

The department is requested to submit a Self Study Report (SSR) of its performance during the academic year 2019 – 20 in the following format, for the purpose of department grading. The grading aims to encourage self-evaluation, accountability, research, and innovation in teaching and learning. It will also help to create healthy competition in curricular and extracurricular activities among departments. The grading will be performed based on the following six criteria.

Criterion I – Teaching-learning Process

Criterion II – Research

Criterion III – Consultancy and extension

Criterion IV – Extracurricular activities

Criterion V – Student Support and Progression

Criterion VI – Supportive activities

SELF STUDY REPORT

CRITERION I – TEACHING-LEARNING PROCESS

- a. Does the department Plan and organize the teaching-learning and evaluation schedules?

Yes No
(10 MARKS)

(If yes; provide documentary evidence-Submit filled up **Teachers Diary (2019-20)** of each teacher or any other evidence)

- b. Which teaching-learning method/s is/are used by teachers?

(Put marks in appropriate boxes. Details must be given)

- | | |
|------------------------------------|-------------------------------------|
| 1. Lecture | <input checked="" type="checkbox"/> |
| 2. Interactive method | <input type="checkbox"/> |
| 3. Project-based learning | <input type="checkbox"/> |
| 4. Computer-assisted learning | <input checked="" type="checkbox"/> |
| 5. Experiential learning | <input checked="" type="checkbox"/> |
| 6. Seminars | <input checked="" type="checkbox"/> |
| 7. Others (mention) Live specimens | <input checked="" type="checkbox"/> |

(3 marks each
max 15MARKS)

Student centric methods such as experiential learning, participative learning and problem solving methodologies are used for enhancing learning experience

Dissertations of students 2019 – 2020

- List & Link to Documents - Number of Dissertations - 1

1. **Sareena P. Mohammed (2019)**. Current status of coastal flora of Chavakkad Beach, Thrissur District, Kerala.

https://drive.google.com/file/d/1Pu2W_XkOh8mpL1SXz72xd5XDrKRrRQfG/view?usp=sharing

KSCSTE Student Research Projects:

Name of student investigator: **Ms. Sareena P. Mohamed**, IV Semester M.Sc. Botany

Title of the Project: *Current status of Coastal Flora of Chavakkad Beach, Thrissur District, Kerala*

Funded by: Rs. 6,500/- KSCSTE Student Research Project

Present Status: Completed and project report submitted - March 2020

Reference letter: 143/SPS 63/2018/KSCSTE Dated 07-01-2019

https://drive.google.com/file/d/1QniBGK6GH_VqnMtfOP7IgVI-U-MIAVMA/view?usp=sharing

2.3.1 (b) - Participative Learning*

| Participative Learning* 2.3.1 (b) | Details | View Document / Link to Documents |
|--|--|---|
| Workshop organized for students 2019-20 | Two Day Algal Workshop on 'Diversity, Taxonomy and Applications' on 14 th - 15 th February, 2020 Sponsored by Kerala State Council for Science, Technology and Environment (KSCSTE) Supported by the Department of Science and Technology (DST), Govt. of India. | Brochure https://drive.google.com/file/d/1QoLOM_63zTBg7N1Fx6VlnbkHcbneEOCw/view?usp=sharing |
| Students delivered lecture in Seminar | Ms. Sareena P. Mohamed Delivered a lecture on the topic "Current Status of Coastal Flora of Chavakkad Beach, Thrissur District, Kerala" in National Seminar on 'Species the Passion V' on 27 th June 2019 organized by the Research and PG Dept. of Botany, St. Thomas College (Autonomous), Thrissur, supported by KSCSTE, Thiruvananthapuram. | https://drive.google.com/file/d/1oFYEsw28NU2XgvXpcsZ_s9cirVA93ioh/view?usp=sharing |

2.3.1 (c) - Problem solving Methodologies*

| Problem solving Methodologies* | Details | View Document / Link to Documents |
|---|--|---|
| Nature Education Camp / Nature Awareness Workshop | Parambikulam Tiger Reserve, Forest & Wildlife Department, Govt. of Kerala, on 02 nd and 03 rd September, 2019. | https://drive.google.com/file/d/1KQPgInE14F9p0qRftOXz_kM_OS1z4EiB/view?usp=sharing |

- c. Does the department use any modern teaching aids and tools like **computers, audio-visuals, MOODLE**, CAL (Computer Aided Learning), **internet** and other information/materials, which ensure that students have effective learning experience?

Yes No 3marks each max 15

If yes, give details.

- d. Department conducted any exams in MOODLE-Learning Management system?

Yes No 3marks each max 15

If yes, give details of exams.

III Semester B.Sc. Complementary Botany Internal Exam on 26-07-2019

IV Semester B.Sc. Complementary Botany Internal Exam on 15-01-2020

- e. Does the department conduct any skill-developing programs (short-term add-on courses, soft-skill development programs etc.) for students? 05 for each – max 10

Yes No

If yes, give details

- f. Does the department apply for any new course, by designing curricula for it, during the current year?

Yes No 5 each max 15

If yes, give details

Triple Main – Zoology, Botany, Bioinformatics Aided Course (2020-21)

* Not sanctioned by Government

- g. How many teachers attended seminar/ workshop/ conference/ refresher courses etc. during the period (Use separate sheet if necessary) > 90% =10, >50=5, <50 =0 max 10

Faculty Development Programmes attended:

| Sl. No | Name of faculty | Title of the seminar/ workshop/ conference etc. | Duration | | Whether international/ National / State/ regional | Organizing agency |
|--------|-------------------|---|------------|------------|---|---|
| | | | From | To | | |
| 1 | Dr. Tessy Paul P. | 7 days online course "Online Teaching-Learning for Beginners" | 25-05-2020 | 31-05-2020 | National | KKTM Government College, Pullut, Kerala |
| 2 | Dr. Tessy | Five days Faculty | 20-07- | 24- | National | VHNSN College |

| | | | | | | |
|---|-------------------|--|------------|------------|----------|--|
| | Paul P. | Development Programme on “Agriculture, Environment and Climate Change | 2020 | 07-2020 | | (Autonomous), Virudhunagar and PEARL - A Foundation for Educational Excellence, Bengal |
| 3 | Dr. Tessy Paul P. | Five days Faculty Development Programme on “Assessment, Accreditation and Quality Assurance in Higher Education Institutions” | 20-07-2020 | 24-07-2020 | National | VHNSN College (Autonomous), Virudhunagar and PEARL - A Foundation for Educational Excellence, Bengal |
| 4 | Dr. Tessy Paul P. | One-Week Online Faculty Development Programme on “ICT Enabled Teaching Learning” | 07-09-2020 | 13-09-2020 | National | Teaching Learning Centre Ramanujan College University of Delhi And Janki Devi Memorial College University of Delhi |
| 5 | Dr. Tessy Paul P. | Two-Week Online Faculty Development Programme on “Research Methodology” | 01-10-2020 | 15-10-2020 | | Teaching Learning Centre, Ramanujan College, University of Delhi |
| 6 | Dr. Tessy Paul P. | 5 Days Online Faculty Development Programme on “Research and Career” | 19-10-2020 | 23-10-2020 | National | Vimala College (Autonomous) Thrissur, Kerala, supported by DBT-STAR College Scheme, Gov. of India |
| 7 | Dr. Tessy Paul P. | 7 Days Inter disciplinary National Online Faculty Development Programme on “Quality Science Education in India in the 21 st Century for Science Teachers” | 03.11.2020 | 09.11.2020 | National | Christ College (Autonomous), Irinjalakuda, Thrissur District – 680 125, Kerala |

Workshops / Symposiums / Training Programmes attended:

| Sl. No | Name of faculty | Title of the seminar/ workshop/ conference etc. | Duration | | Whether international/ National/ State/regional | Organizing agency |
|--------|-------------------|--|------------|------------|---|---|
| | | | From | To | | |
| 1 | Dr. Tessy Paul P. | Nature Awareness Workshop | 02-09-2019 | 03-09-2019 | Intra-Collegiate | Parambikulam Tiger Reserve, Forest & Wildlife Department, Govt. of Kerala |
| 2 | Dr. Tessy Paul P. | National Seminar cum Workshop on “Thallophyta: Diversity, Conservation and Natural Products” | 12-11-2019 | 13-11-2019 | National | KKTM Government College, Pullut, Kodungallur |

| | | | | | | |
|---|-------------------|---|------------|------------|---------------|---|
| | | International Conference on Prospects of Bioscience in Industry | 11-12-2019 | 12-12-2019 | International | PG Dept. of Botany, St. Joseph's College, Irinjalakuda St. Joseph's College, Irinjalakuda |
| 3 | Dr. Tessy Paul P. | <i>'Clean Campus – Three Day National Training Programme on Sensitizing Stake Holders for Responsible Institutional Waste Management'</i> | 06-01-2020 | 07-01-2020 | National | Christ College (Autonomous), Irinjalakuda in technical collaboration with Central Pollution Control Board (CPCB) funded by Kerala State Council for Science, Technology and Environment (KSCSTE). |
| 4 | Dr. Tessy Paul P. | International Symposium on Biodiversity, Biology and Biotechnology of Algae (ISBBBA 2020) | 08-01-2020 | 10-01-2020 | International | Centre for Advanced Studies in Botany, University of Madras, Guindy Campus, Chennai |
| 5 | Dr. Tessy Paul P. | Two day Algal Workshop on 'Diversity, Taxonomy and Applications' | 14-02-2020 | 15-02-2020 | State | Dept. of Botany, Christ College (Autonomous), Irinjalakuda |

Webinars attended:

| Sl. No | Name of faculty | Title of the seminar/ workshop/ conference etc. | Duration | | Whether international/ National/ State/regional | Organizing agency |
|--------|-------------------|---|------------|------------|---|---|
| | | | From | To | | |
| 1 | Dr. Tessy Paul P. | Webinar on Molecular Taxonomy and DNA Barcoding: Concepts, Methods and Applications | 20-05-2020 | - | National | Department of Botany and IQAC, R. D. and S. H. National College and S. W. A. Science College, Mumbai |
| 2 | Dr. Tessy Paul P. | National Virtual Conference on Biodiversity and Sustainable Development | 05-06-2020 | 06-06-2020 | National | Environmental Society, Ratnagiri and Department of Botany, R. P. Gogate College of Arts and Science & R. V. Joglekar College of Commerce, Ratnagiri, University of Mumbai |

| | | | | | | |
|----|-------------------|--|------------|------------|----------|--|
| 3 | Dr. Tessa Paul P. | Webinar on Research and Publication Ethics in Science | 27-06-2020 | - | National | St. Albert's College (Autonomous), Ernakulum |
| 4 | Dr. Tessa Paul P. | National webinar on Home fitness hits the reset button: During the post lockdown period | 10-07-2020 | - | National | Department of Physical Education, Christ College (Autonomous), Irinjalakuda, |
| 5 | Dr. Tessa Paul P. | National webinar on Applications of 3D Bioprinting in Tissue Engineering - A cutting edge Technology | 14-07-2020 | - | National | PG department of Botany, St. Mary's College, Thrissur |
| 6 | Dr. Tessa Paul P. | Webinar on Virtual Classroom Series 1: ICT in teaching-learning process in Covid times | 23-07-2020 | - | National | Christ College of Engineering, Irinjalakuda |
| 7 | Dr. Tessa Paul P. | Webinar on Virtual Classroom Series 2: Moodle and Video tutorials using open broadcasters | 24-07-2020 | - | National | Christ College of Engineering, Irinjalakuda |
| 8 | Dr. Tessa Paul P. | Webinar on Virtual Classroom Series 3: Google Classroom - A learning management system | 25-07-2020 | - | National | Christ College of Engineering, Irinjalakuda |
| 9 | Dr. Tessa Paul P. | Webinar on Importance of medicinal plants in the month of Karkkidaka | 29-07-2020 | - | National | PG and Research Department of Botany, MES Asmabi College, P. Vemballur |
| 10 | Dr. Tessa Paul P. | Webinar on Interpreting Plant Taxonomy | 03-08-2020 | - | National | Department of Botany, Sree Narayana College, Kollam |
| 11 | Dr. Tessa Paul P. | Webinar on Research and Publication Ethics | 06-08-2020 | - | National | St. Thomas College (Autonomous), Thrissur in Association with the Directorate of Research, University of Calicut |
| 12 | Dr. Tessa Paul P. | Three days National webinar on Approach to NAAC accreditation | 06-08-2020 | 08-08-2020 | National | Mar Athanasius College (Autonomous), Kothamangalam |
| 13 | Dr. Tessa Paul P. | Webinar on Plant Taxonomy: A task beyond theory | 07-08-2020 | - | National | Department of Botany, Mar Athanasius College (Autonomous), |

| | | | | | | |
|----|-------------------|---|------------|------------|---------------|--|
| | | | | | | Kothamangalam |
| 14 | Dr. Tessa Paul P. | Webinar on In text citation and referencing pattern | 10-08-2020 | - | National | Bharata Mata College, Thrikkakara |
| 15 | Dr. Tessa Paul P. | International webinar series on scientific writing: How to write a research paper | 17-08-2020 | - | International | Christ College (Autonomous), Irinjalakuda |
| 16 | Dr. Tessa Paul P. | International webinar series on scientific writing: How to write a research proposal | 18-08-2020 | - | International | Christ College (Autonomous), Irinjalakuda |
| 17 | Dr. Tessa Paul P. | International webinar series on scientific writing: In text citation and referencing with special em | 19-08-2020 | - | International | Christ College (Autonomous), Irinjalakuda |
| 18 | Dr. Tessa Paul P. | Two-day Webinar on "Quantitative Analysis of Research Productivity: From scientometrics' perspective | 20-08-2020 | 21-08-2020 | National | Mar Athanasius College (Autonomous), Kothamangalam |
| 19 | Dr. Tessa Paul P. | Webinar on Recent trends in Plant Science Research at JNTBGRI session 1: Plants – Diversity, Systematics, Management and Conservation | 26-08-2020 | - | National | KSCSTE - Jawaharlal Nehru Tropical Botanic Garden and Research Institute |
| 20 | Dr. Tessa Paul P. | Biotechnological potential, conservation of Cyanobacteria / Micro green algae falling under Indo-Bur | 27-08-2020 | - | International | Annarkkili Amma research Institute (AARI), Chennai Tamilnadu |
| 21 | Dr. Tessa Paul P. | Webinar on NAAC Quality Enhancement Techniques | 15-09-2020 | - | National | PSMO College, Tirurangadi |
| 22 | Dr. Tessa Paul P. | Webinar on Challenges and Biodiversity Conservation | 05-10-2020 | - | National | Christ College (Autonomous), Irinjalakuda |
| 23 | Dr. Tessa Paul P. | National Webinar on Biodiversity Conservation: Dimensions | 07-10-2020 | - | National | St. Stephen's College, Pathanapuram, Kollam |

- h. Give details of faculty members, if any, who are selected as resource persons for seminar/workshop/conference/refresher courses etc. during this period (Use separate sheet if necessary)

2 for each – max 10

Sessions Chaired in Workshops / Seminars

| Sl. No | Name of faculty | Title of the seminar/ workshop/ conference etc. | Duration | | Whether international/national/state/regional | Organizing agency |
|--------|-------------------|--|------------|------------|---|---|
| | | | From | To | | |
| | Dr. Tessa Paul P. | Judged Paper Presentations: International Conference on Prospects of Bioscience in Industry | 11-12-2019 | 12-12-2019 | International | PG Dept. of Botany, St. Joseph's College, Irinjalakuda St. Joseph's College, Irinjalakuda |
| | Dr. Tessa Paul P. | Judged Paper Presentations: National seminar cum workshop on " <i>Thallophyta: Diversity, Conservation and Natural Products</i> " | 12-11-2019 | 13-11-2019 | National | Dept. of Botany, KKTM Government College, Pullut, Kodungallur |

Invited Talks except in Seminars / Workshops / Conferences

| Sl. No | Date | Title | Organizer | Venue |
|----------|---------------------------|--|---|---------------------------------------|
| Regional | 9 th July 2019 | Invited talk on Biodiversity and Taxonomy of Freshwater Algae - Workshop on Algae | PG Dept. of Botany, Vimala College (Autonomous), Thrissur | Vimala College (Autonomous), Thrissur |

Plenary Talks or as Resource Person in Seminars / Workshops / Conferences

| Sl. No | Date | Title of Event and Session handled | Organizer | Venue |
|----------|--|--|---|--|
| National | 12 th and 13 th November, 2019 | Two Day National Seminar Cum Workshop on Thallophyta: Diversity, Conservation and Natural Products - <i>Invited Lecture on</i> | Dept. of Botany, KKTM Gov. College, Pullut, Kodungallur | KKTM Gov. College, Pullut, Kodungallur |

| | | | | |
|----------|---------------------------------------|---|---|---|
| | | <i>Freshwater Algal Diversity of Kerala</i> | | |
| Regional | 14 th February, 2020 | Two Day Algal Workshop on ' <i>Diversity, Taxonomy and Applications</i> ' – Talk on <i>Freshwater algae of Kerala: Diversity, taxonomy and applications</i> | Dept. of Botany, Christ College (Autonomous), Irinjalakuda, Sponsored by KSCSTE and Supported by DST, Govt. of India. | Christ College (Autonomous), Irinjalakuda |
| Regional | 14 th February, 2020 | Two Day Algal Workshop on ' <i>Diversity, Taxonomy and Applications</i> ' – Hands-on Session - <i>The Freshwater Algal Diversity of Thrissur District, Kerala</i> | Dept. of Botany, Christ College (Autonomous), Irinjalakuda, Sponsored by KSCSTE and Supported by DST, Govt. of India. | Christ College (Autonomous), Irinjalakuda |
| Regional | 14 th February, 2020 | Two Day Algal Workshop on ' <i>Diversity, Taxonomy and Applications</i> ' – Hands-on Session - <i>Methods of documentation of algae: Microphotographs and Camera Lucida diagrams</i> | Dept. of Botany, Christ College (Autonomous), Irinjalakuda, Sponsored by KSCSTE and Supported by DST, Govt. of India. | Christ College (Autonomous), Irinjalakuda |
| Regional | 15 th February, 2020 | Two Day Algal Workshop on ' <i>Diversity, Taxonomy and Applications</i> ' – Hands-on Session - <i>Algal diversity of perennial ponds and temple ponds</i> | Dept. of Botany, Christ College (Autonomous), Irinjalakuda, Sponsored by KSCSTE and Supported by DST, Govt. of India. | Christ College (Autonomous), Irinjalakuda |

- i. Does the department introduce any innovations in teaching/ learning/ evaluation during the current year? (like online tests, video lectures from out station resource persons)

Yes ✓ No

10 for each – max 20

If yes, give details

- **Online classes conducted through Google meet**
- **Online test papers conducted by Google forms through Google Drive**

j. Does the department provide remedial teaching? 15

Yes No

If yes, furnish the following (use separate sheet if needed); provide evidence for student attendance

| Sl. No. | Name of the teacher | Class for which remedial teaching is arranged | No of students benefited |
|---------|---------------------|---|--------------------------|
| | | | |

k. Does the department provide coaching for entrance tests/eligibility tests (JAM, CSIR/UGC, University entrance tests etc..)? 15

Yes No

If yes, furnish the following (use separate sheet if needed); provide evidence for student attendance

| Sl. No. | Name of the teacher | Class for which remedial teaching is arranged | No of students benefited |
|---------|---------------------|---|--------------------------|
| | | | |

CRITERION II – RESEARCH

a. Give details of the publication by faculty, if any during the period . 2 for each
– max 1

| Sl. No | Name of faculty | Title of the paper | Title of the Journal and year of publishing | Citation index and impact factor of the journal, if available |
|--------|--|---|--|---|
| 1 | Tessy Paul, P. and R. Sreekumar | Freshwater Volvocales (Chlorophyceae) from Thrissur Kole lands, part of Vembanad - Kol (Ramsar site), Kerala, India | <i>Vimala International Research Journal for Pure and Applied Science [VIRJ]</i> | - |

| | | | | |
|---|--|--|--|------------|
| | | | (ISSN No:2347-3835) | |
| 2 | Tessy Paul, P. & Sreenisha, K. S. | <i>Phytoplankton diversity of Tirur River, Malappuram District, Kerala</i> | <i>Indian Hydrobiology</i> (ISSN 0971-6548) 2020 Accepted for publication | UGC Listed |

| Abstracts Published | | | | | |
|----------------------------|------|---|---|--|---------|
| Sl. No | Year | Title | Event | Authors | Page No |
| Internati onal 1 | 2020 | <i>Freshwater algae from temple tanks of Thrissur District, Kerala, India</i> | Prof. T. V. Desikachary Birth Centenary International Symposium on Biodiversity, Biology and Biotechnology of Algae (ISBBBA 2020) on 8 th – 10 th January, 2020 organized by Centre for Advanced Studies in Botany, University of Madras, Guindy Campus, Chennai. | Tessy Paul, P. | 36 |
| 2 | 2020 | <i>Freshwater Algae of Manali River, Kerala, India</i> | Prof. T. V. Desikachary Birth Centenary International Symposium on Biodiversity, Biology and Biotechnology of Algae (ISBBBA 2020) on 8 th – 10 th January, 2020 organized by Centre for Advanced Studies in Botany, University of Madras, Guindy Campus, Chennai. | Devikrishna, C.S., Tessy Paul, P. and Mohammed Nasser K.M. | 63-64 |
| 3 | 2020 | A study on Cyanobacteria of P. Vemballur, Thrissur Dt., Kerala, India | Prof. T. V. Desikachary Birth Centenary International Symposium on Biodiversity, Biology and Biotechnology of Algae (ISBBBA 2020) on 8 th – 10 th January, 2020 organized by Centre for Advanced Studies in Botany, University of Madras, Guindy Campus, Chennai. | Shaheedha, T.M., Mohammed Nasser, K.M. and Tessy Paul, P. | 74-75 |

| | | | | | |
|---|------|--|---|--|-------|
| 4 | 2020 | <i>Assessment of Algae in Ponnani Kole Lands (part of Vembanad-Kol, Ramsar Site), Malappuram District, Kerala, India</i> | Prof. T. V. Desikachary Birth Centenary International Symposium on Biodiversity, Biology and Biotechnology of Algae (ISBBBA 2020) on 8 th – 10 th January, 2020 organized by Centre for Advanced Studies in Botany, University of Madras, Guindy Campus, Chennai. | Vinu Thomas, Tessa Paul, P. and Mohammed Nasser K.M. | 78-79 |
|---|------|--|---|--|-------|

b. Is the department recognized as a research department?

Yes

No

05

If yes give the number of research scholars joined this year. **ONE**

c. Did the department produce any Ph. D during the last two years? (*For research departments only*) NA

Yes

No

10

If yes furnish the following

| Sl. No | Name of the Research scholar | Name of the guide | Title of the thesis | Year of awarding |
|--------|------------------------------|-------------------|---------------------|------------------|
| | | | | |

d. Does the department have running Major research projects?

Yes

No

10 for each

max 20

If yes furnish the following.

| Sl. No | Name of the principal investigator | Duration | | Title of the project | Funding agency |
|--------|------------------------------------|----------|----|----------------------|----------------|
| | | from | to | | |
| | | | | | |

e. Does the department have running Minor research projects?

Yes

No

✓

5 for each

max 15

If yes furnish the following.

KSCSTE Student Project

| Sl. No | Name of the principal investigator | Duration | | Title of the project | Funding agency |
|--------|--|----------|----|--|---|
| | | from | to | | |
| | Dr. Tessa Paul P. Associate Professor & HOD, Dept. of Botany, Name of student investigator: Ms. Sareena P. Mohamed. | | | <i>Current status of Coastal Flora of Chavakkad Beach, Thrissur District, Kerala</i> | KSCSTE Student Research Project Rs. 6500/- 143/SPS 63/2018/KSCSTE Dated 07-01-2019 |

a. Did the department submit any new proposal for project, seminar etc. to funding agencies during the academic year?

Yes

No ✓

5 for each

max 10

If yes give the number proposals submitted and the name of agencies.

b. Did the department conduct seminar/workshop/conference etc. during the academic year?

Yes ✓

No

5 for each

max 15

If yes furnish the following

| Sl. No | Title of the seminar/ workshop/ conference etc. | Duration | | Whether international/ national/ state/ regional | Funding agency |
|--------|--|---------------------------------------|---------------------------------------|--|----------------|
| | | From | To | | |
| | Two Day Algal Workshop on <i>Diversity, Taxonomy and Applications</i> Organizer: Dept. of Botany, Christ College (Autonomous), Irinjalakuda | 14 th February, 2020 | 15 th February, 2020 | State | KSCSTE |

- c. Is there any publication from faculty like books, articles, conference/seminar proceedings, course materials (for distance education), software packages or other learning materials, any other (specify) ?

Yes

No

5 for each max 15

If yes give details.

| Books and Book Chapters | | | | | |
|-------------------------|------|---|---|---|-------------------|
| Sl. No | Year | Title | Publisher | Authors | ISBN No. |
| 1 | 2019 | Systematic assessment of freshwater phytoplankton in the perennial ponds of Thrissur District, Kerala, India. | <i>Albertian Journal of Multidisciplinary Studies - Proc. of the Albertian Knowledge Summit: An International Conference on Multidisciplinary Research – Recent advances in Plant Sciences, on 14th January, 2019. St. Albert's College (Autonomous), Ernakulam. Vol. 1, Issue 1: pp. 116-118.</i> | Tessy Paul, P. | 978-93-5351-066-4 |
| 2 | 2019 | <i>Taxonomic account of Euglenoids in selected sites of Karuvannur River, Kerala, India</i> | <i>Albertian Journal of Multidisciplinary Studies - Proc. of the Albertian Knowledge Summit: An International Conference on Multidisciplinary Research – Recent advances in Plant Sciences, on 14th January, 2019. St. Albert's College (Autonomous), Ernakulam. Vol. 1, Issue 1: pp. 76-78.</i> | Devikrishna, C.S., Tessy Paul, P. and Mohamed Nasser K.M. | 978-93-5351-066-4 |

| Name of faculty | International/ National/ Others | Title of the paper | Conference details (Title, organizing body, dates) |
|---------------------------------------|---------------------------------------|--|--|
| Arun T. Ram and Tessy Paul P. (2020). | National | The genus <i>Oscillatoria</i> Vaucher (Cyanobacteria) from selected mangrove environments of Southern Kerala, India. | <i>Proceedings of the National Virtual Conference on Biodiversity and Sustainable Development</i> conducted on 5 th and 6 th June 2020. (in press) |

CRITERION III – CONSULTANCY AND EXTENSION

- a. Does the department have any MoU/ MoC (memorandum of contract)/ mutually beneficial agreements signed with industry /agency, or other academic institutions?

Yes

No

5 for each max 15

If yes give details.

- a. Does the department have collaborative activities (on-the-job training, student placement, internship, publication, curriculum development, **research, consultancy**, etc.) with other organizations (service sector, agricultural sector, local bodies/community, administrative agencies, state/national/international organizations)?

Yes

No

05 for each max 10

If yes give details

Details of Guide-ship

Research Guide, University of Calicut

Research Centre: Botany Department, M.E.S. Asmabi College, P. Vemballur, Kodungallur, Thrissur District, Kerala

Year of Approval: 2014

U.O. No: 8928/2014/Admn Dated 16/09/2014

No. of Ph.D. Students registered - 4 (2 Full time and 2 part time).

| Sl. No: | Title | Name of Student | Institution | Role | Status |
|---------|--|-----------------------------|-----------------------|----------------|------------------------------------|
| 1. | <i>Algal Flora of Karuvannur River, Thrissur District, Kerala</i> | Ms. Devikrishna C.S. | University of Calicut | Research Guide | Ph.D. – Full time - Ongoing |
| 2. | <i>Algal Flora of Inland water bodies of Coastal areas of Malappuram District, Kerala</i> | Mr. Vinu Thomas | University of Calicut | Research Guide | Ph.D. – Part time - Ongoing |
| 3. | <i>Systematic Study of Endophytic and Periphytic Cyanobacteria of Thrissur District and Bioactive Compound Assay of Selected Members</i> | Ms. Shaheeda T. M. | University of Calicut | Co Guide | Ph.D. – Part time - Ongoing |
| 4. | <i>Ecology and Diversity of Mangrove Associated Cyanobacteria of Kerala</i> | Mr. Arun T. Ram | University of Calicut | Research Guide | Ph.D. – Full time - Ongoing |

| Sl. No | Name | Title of the event | Organizer & venue | International/ National | Date |
|--------|-------------------|--|--|----------------------------|---------------------------------|
| | Dr. Tessy Paul P. | Talk on <i>Freshwater algae of Kerala: Diversity, taxonomy and applications</i> – Two Day Algal Workshop on ‘Diversity, Taxonomy and Applications’ | Dept. of Botany, Christ College (Autonomous), Irinjalakuda Sponsored by Kerala State Council for Science, Technology and Environment (KSCSTE) Supported by the Department of Science and Technology (DST), Govt. of India. | State | 14 th February, 2020 |
| | Dr. Tessy Paul P. | Hands-on Session - <i>The Freshwater Algal Diversity of Thrissur District, Kerala</i> – Two Day Algal Workshop on ‘Diversity, Taxonomy and Applications’ | Dept. of Botany, Christ College (Autonomous), Irinjalakuda Sponsored by Kerala State Council for Science, Technology and Environment (KSCSTE) Supported by the Department of Science and Technology (DST), Govt. of India. | State | 14 th February, 2020 |
| | Dr. Tessy Paul P. | Hands-on Session - <i>Methods of documentation of algae: Microphotographs and Camera Lucida diagrams</i> – Two Day Algal Workshop on ‘Diversity, Taxonomy and Applications’ | Dept. of Botany, Christ College (Autonomous), Irinjalakuda Sponsored by Kerala State Council for Science, Technology and Environment (KSCSTE) Supported by the Department of Science and Technology (DST), Govt. of India. | State | 14 th February, 2020 |
| | Dr. Tessy Paul P. | Hands-on Session - <i>Algal diversity of perennial ponds and temple ponds</i> – Two Day Algal Workshop on ‘Diversity, Taxonomy and Applications’ | Dept. of Botany, Christ College (Autonomous), Irinjalakuda Sponsored by Kerala State Council for Science, Technology and Environment (KSCSTE) Supported by the Department of Science and Technology | State | 15 th February, 2020 |

| | | | | | |
|--|----------------|--|--|---------------|--|
| | | | (DST), Govt. of India. | | |
| | Tessy Paul, P. | Paper presentation - <i>Freshwater algae from temple tanks of Thrissur District, Kerala, India</i>, in Prof. T. V. Desikachary Birth Centenary International Symposium on Biodiversity, Biology and Biotechnology of Algae (ISBBBA 2020) | Centre for Advanced Studies in Botany, University of Madras, Guindy Campus, Chennai. | International | 8 th – 10 th January, 2020 |

- b. Does the department conduct/coordinate any kind of extension activities which are integrated with the academic curricula, contributive to community development etc.?

Yes No ✓ 5 for each max 10

If yes give details.

- c. Does the department have partnership with University/Research institutions/Industries/NGOs etc. for extension activities?

5 + 5

Yes ✓ No max 10

If yes give details

CAS Promotions of teachers of other colleges -

| Sl. No. | Name | Activity to which associated |
|---------|-------------------|---|
| 1 | Dr. Tessy Paul P. | Vice-Chancellor's nominee & Member, Research Advisory Committee, Research & PG Department of Botany, Carmel College, Mala, Thrissur |
| 2 | Dr. Tessy Paul P. | Aluminae member, Board of Studies in Botany, Vimala College (Autonomous), Thrissur |
| | Dr. Tessy Paul P. | Member, Research Advisory Committee, Research & PG Department of Botany, MES Asmabi College, P. Vemballur, Kodungallur, Thrissur |

| Membership / Positions in Academic and Professional Bodies | | | |
|---|-------------------|-------------|--|
| Sl. No | Date | Position | Organisation |
| National | Dr. Tessa Paul P. | Life member | Marine Biological Association of India (MBAI) |
| National | Dr. Tessa Paul P. | Life member | Phycological Society of India |
| National | Dr. Tessa Paul P. | Life member | Krishnamurthy Institute of Algology (KIA), Chennai |
| National | Dr. Tessa Paul P. | Life member | Indian Association of Aquatic Biologists (IAAB) |
| National | Dr. Tessa Paul P. | Member | Indian Ecological Society |

Reviewer for Journals

- i) Reviewer for *Oceanologia Journal of Elsevier*, the official journal of the *Committee of Marine Research* and the *Institute of Oceanology of the Polish Academy of Sciences*, is an international journal that publishes results of original research in the field of Marine Sciences - 2019
<https://drive.google.com/file/d/1Utddw8BaA2HBNrlbX0KELFzCTTxLVV-/view?usp=sharing>
<https://drive.google.com/file/d/1FgvjmDATxAE6B2rwQZE56KCPc0MST6h0/view?usp=sharing>
- ii) Reviewer for *Current World Environment*, Enviro Research Publishers, is an international journal of Environmental Science – 2020
<https://drive.google.com/file/d/1IbRnXSWHxArkHuopizldLBVtaz2ZFY2f/view?usp=sharing>

CRITERION IV – EXTRACURRICULAR ACTIVITIES

- a. Mention achievements of students , if any, of the students under the department (D- zone, Quiz competitions etc..) outside the college
05 for each max 15
- b. Mention the association activities, if any, during the academic year other than inauguration and sent off
5 each max 10

Biodiversity Club Activities 2019-2020

| Sl. No: | Dates of the programme | Details of programme |
|---------|------------------------|--|
| | | Onam bird count by the members of Biodiversity club |
| | | Plastic free Onam celebration. |

| | | |
|--|---|--|
| | 2 nd and 3 rd September 2019. | Parambikulam tiger Reserve two-day nature camp |
| | | World clean-up day 2020: Waste collection and segregation of Christ College Campus through Clean up drive |
| | 6/1/2020, 7/1/2020 and 9/1/2020 | 3 days “ Clean Campus ”- National Training Programme in technical support with CPCB, Bengaluru funded by KSCSTE |
| | | Global Climate strike 2019 - Conducted a Poster Exhibition and thematic flash mob on climate change for creating awareness among the students of the campus. |
| | | Extension service by the club members for the People Biodiversity Register (PBR) preparation for Irinjalakuda Municipality ward 21 and 37. |
| | | National Science day 2020: Two Day Algal workshop on diversity, Taxonomy and Applications on February 14 and 15, 2020. |
| | June 5, 2020. | World Environment day 2020: Biodiversity Identification Contest through Google Forum |
| | May 22, 2020 | International Day for Biological Diversity 2020: Homestead Biodiversity Identification Contest |
| | January 30, 2020 | Interaction of club members with Prof. Madhav Gadgil and Dr. V. S. Vijayan, |
| | February 12, 2020. | World Wetland Day, A hands-on session and invited talk on Biodiversity Documentation via India Biodiversity Portal . Mr. Anu Radhakrishnan, Senior Programme Officer, ATREE, Bangalore. BioBlitz competition. |

- a. Mention performance of students in sports activities during the academic year (Athletics, Games etc in Intercollegiate/University competitions)

2 marks for each max 10

- b. Any other relevant information the department wishes to add.

10 marks

CRITERION V – STUDENT SUPPORT AND PROGRESSION

- a. Furnish the pass percentage for degree main 2019 – 20 batch (pass out) and PG 2018 – 20 batch. max
60

% pass

Postgraduate course : NA

Degree (Main) : NA

| Marks | >90% | 89-80% | 79-70% | 69-55% |
|--------------------------|------|--------|--------|--------|
| Number of students UG | | | | |
| Number of students PG | | | | |

Language & Complementary Course (Batch-wise)

| Batch | Number of students with grade | | | |
|-------|-------------------------------|--------|--------|--------|
| | >90% | 89-80% | 79-70% | 69-55% |
| | | | | |
| | | | | |

Pass > 90 % = 20 marks, > 80 % = 10 marks, <80% = 0 marks.

For UG: Each >90% 2 marks each, 1 for 89-80% (Max 50)

For PG: Each >90% 3 marks each, 2 for 89-80% (Max 50)

For Language/Complementary for each students > 90% 2 marks, 1 for 89-80%, 0.5 for 79-70% (Max 20)

- b. Mention about CSIR-UGC-NET, if any, obtained for the 2018 – 20 batches. (provide documentary evidence) **NA**

5 for each max 20

- c. No of students who got admission in Top universities/institutions

(List of institutions- IITs, NITs, JNU, Hyderabad University, EFLUs, CUSAT, IISC, Pondicherry University, IISERs) **NA**

5 for each (Max 20)

Should submit list of students with register number

- d. Mention the efforts made by the department to minimize the dropout rate and facilitate the students to complete the course. **NA**

(Max 5)

- e. Give the percentage of the students progressed to higher studies. Give details for last year. If records are kept >70%- 05 marks, 69-60%-3 marks, 59-50%- 2marks

(Max 5) **NA**

Submit the list of students, admitted course, college and university

- f. Does the department provide any support for students for appearing and qualifying in various competitive examinations? (UGC-CSIR-NET, JAM, SLET, CAT, TOFEL, GMAT, GRE etc.); If yes provide evidence **NA** 5 for each) (Max 10)

Yes

No

- g. Does the department provide placement and counseling services for students **NA**

Yes

No

Records to be kept 10

If yes give the number of students benefited

- h. Does the department encourage and develop entrepreneurial skills among students **NA**

Yes

No

10

If yes give details

- i. Does the department have a mechanism to seek and use data and feedback from its graduates and from employers, to improve the growth and development of the institution?

Yes

No

If yes give details

5 marks each max 10

CRITERION VI – SUPPORTIVE ACTIVITIES

- a. Members of the department involved in the administrative/club/committee activities of the college in 2019-20 academic year? 2 mark for each (Max 10)

| Sl. No. | Name | Activity to which associated |
|---------|-------------------|--|
| 1 | Dr. Tessy Paul P. | Dean of Faculty of Science and Member, Academic Council, Christ College (Autonomous), Irinjalakuda |
| 2 | Dr. Tessy Paul P. | Member, Examination Standing Committee for End semester exams, Christ College (Autonomous), Irinjalakuda |
| 3 | Dr. Tessy Paul P. | Member, Examination Standing Committee for Internal exams, Christ College (Autonomous), Irinjalakuda |

| | | |
|----|-------------------|--|
| 4 | Dr. Tessy Paul P. | Member, Internal and External Examinations Squad, Christ College (Autonomous), Irinjalakuda |
| 5 | Dr. Tessy Paul P. | Chairperson, Board of studies - Botany, Christ College (Autonomous), Irinjalakuda |
| 6 | Dr. Tessy Paul P. | Chairperson, Board of Examiners, I and III Semester UG Botany Examinations November 2019, Christ College (Autonomous), Irinjalakuda. |
| 7 | Dr. Tessy Paul P. | Chairperson, Board of Examiners, II and IV Semester UG Botany Examinations April 2020, Christ College (Autonomous), Irinjalakuda |
| 8 | Dr. Tessy Paul P. | Member, College Council, Christ College (Autonomous), Irinjalakuda |
| 9 | Dr. Tessy Paul P. | Convener, Grace mark committee, Christ College (Autonomous), Irinjalakuda |
| 10 | Dr. Tessy Paul P. | Member, Internal Quality Assurance Cell (IQAC) |
| 11 | Dr. Tessy Paul P. | Joint-Coordinator, Biodiversity Club, KSBB |
| 12 | Dr. Tessy Paul P. | Convener, Grievance Redressal Cell (Women) |
| 13 | Dr. Tessy Paul P. | Member, Anti-Harassment Committee, Christ College (Autonomous), Irinjalakuda |

- b. Describe the measures taken for maintaining the cleanliness of staff room, classrooms, labs, museums etc. Details to be furnished (Max 10)

Periodical cleaning

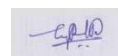
- c. Does the department maintain proper documentation of data on Internal marksheets /Question papers/ Stock register (Details to be furnished)

Yes No (Max 10)

- d. Mention the measures if any, taken by the department for personality development of students.

(Max 05)

Personality development of students through or by the activities of Biodiversity Club



Date: 06-01-2021

Signature:

Dr. Tessy Paul P.

Head of the department: