



Name of the Program	<b>M.Sc. Botany</b>
Name of the Program Co-ordinator	<b>Ms. Sreekutty Sreedharan</b>
Expected Achievement Level for PO, PSO & CO	<b>3</b>

### Analysis of CO Attainment

<i>Course No</i>	<i>Course Code</i>	<i>Course Name</i>	<i>Course Attainment Value</i>
Course 1	BY010101	Microbiology And Phycology	2.5
Course 2	BY010102	Mycology And Crop Pathology	3
Course 3	BY010103	Bryology And Pteridology	2.83
Course 4	BY010104	Gymnosperms, Palaeobotany And Evolution	2.83
Course 5	BY010105	Practical Course I Microbiology, phycology, Mycology And Crop Pathology	2.83
Course 6	BY010106	Practical Course Ii  Bryology, Pteridology, Gymnosperms And Paleobotany	3
Course 7	BY010201	Plant Anatomy, Developmental Biology And Horticulture	2.83
Course 8	BY010202	Cell Biology, Genetics And Plant Breeding	3
Course 9	BY010203	Plant Physiology And Biochemistry	2.83
Course 10	BY010204	Molecular Biology	3
Course 11	BY010205	Plant Anatomy, Developmental Biology, Horticulture, Cell Biology, Genetics And Plant Breeding- Practical Course I	1
Course 12	BY010206	Plant Physiology, Biochemistry And Molecular Biology- Practical Course -2	3



Course 13	BY010301	Research Methodology, Microtechnique, Biostatistics And Biophysical Instrumentation	2.83
Course 14	BY010302	Biotechnology, Bioinformatics And Bionanotechnology	1
Course 15	BY010303	Angiosperm Taxonomy, Economic Botany And Ethnobotany	2.33
Course 16	BY010304	Environmental Science	3
Course 17	BY010305	Research Methodology, Microtechnique, Biostatistics, Biophysics And Biotechnology- Practical Course I	2.33
Course 18	BY010306	Angiosperm Taxonomy, Economic Botany And Environmental Science- Practical Course II	2.66
Course 19	BY810401	Food, Agricultural And Environmental Microbiology	3
Course 20	BY810402	Clinical Microbiology	2.83
	BY810403	Industrial Microbiology	3
	BY810404	Food, Agricultural And Environmental Microbiology- Practical Course I	3
Course 21	BY810405	Clinical Microbiology And Industrial Microbiology- Practical Course Ii	3
Course22	BY10401	Project And General Viva	3

**Analysis & Recommendations:**

- Learning outcomes of the courses such as plant anatomy, developmental biology, Horti culture, cell biology genetics and plant breeding practical and Biotechnology, Bioinformatics and Bionanotechnology may be improved by interactive learning and regular feedback.



Student centered learning strategies and feedback to be adopted for the courses Angiosperm taxonomy, Economic Botany and developmental science practical courses

- Strategies for enhancing the learning outcomes of Clinical Biology by methods such as study circles and peer teaching may be adopted

## Analysis of PSO Attainment

<i>PSO No</i>	<i>PSO</i>	<i>PO Attainment Value</i>
PSO1	To encourage a clear, comprehensive and advanced mastery in the field of Botany.	2.42
PSO2	Provide basic principles of biological sciences with special reference to Botany and its applied branches	2.47
PSO3	Enabling the students to explore the intricacies of life forms at cellular, molecular and nano level.	2.42
PSO4	To sustain students' motivation and enthusiasm and to help them not only to appreciate the beauty of different life forms but also to inspire them in the dissemination of the concept of biodiversity conservation.	2.44
PSO5	To develop problem solving skills in students and encourage them to carry out innovative research projects thereby enkindling in them the spirit of knowledge creation	2.42
PSO6	To maintain a high level of scientific excellence in botanical research with added emphasis on the role of plants in the structure and functioning of terrestrial and aquatic communities and ecosystem	2.54
PSO7	To equip students to perform functions that demand higher competence in National/International fields.	2.41

### Recommendations:

- Additional journals and textbooks are provided for improving student performance
- Form study groups to develop problem solving skills
- Special attention can be given for specialisation papers and regular feedbacks to be provided based on student performance



## Analysis of PO Attainment

<i>PO No</i>	<i>PO's</i>	<i>PO Attainment Value</i>
PO1	Develop Critical thinking and drive for scientific exploration	2.43
PO2	Gain in-depth understanding of the principles and philosophies of the subject	2.43
PO3	Develop research aptitude	2.43
PO4	Acquire data interpretation and problem-solving skills	2.43
PO5	Acquire practical skills in the area of specialization	2.43
PO6	Effective communication. Principles and concepts	2.43
PO7	Enhance employability through application-oriented learning	2.43
PO8	Practice professional and publication ethics thereby improve ethical decision making ability	2.43
PO9	Create drive for leadership, innovation and entrepreneurship	2.43
PO10	Develop positive attitude towards environmental sustainability and inclusivity	2.43

### Recommendations

- Assistance to be provided for exam preparation methods
- Internship and external project opportunities to be identified
- More activities to be organised and more opportunities to be provided for interaction with experts in the field of the subject, environment, entrepreneurship etc

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