

ST. PHILOMENA'S COLLEGE (AUTONOMOUS)

Affiliated to University of Mysore
Accredited by NAAC with 'B++' Grade
Bannimantap, Mysore, Karnataka,
India-570015



DEPARTMENT OF BOTANY

The Board of Studies in Botany which met on 20/04/2023 has approved the syllabus and pattern of examination for the OE paper entitled Plant Diversity and Human Welfare

BOS COMMITTEE MEMBERS

Sl. No.	Name	Designation
1	Ms. Dorothy .P	Chairman
2	Dr. Amruthesh K.N	University Nominee
3	Prof. Mallikarjunaiah M.N	Member
4	Dr. Sr. Sahaya Mary	Member
5	Ms. Jeevitha Saldanha	Member
6	Ms. Lima Jasmine	Member
7	Mr. Alex	Member

**BSc Botany
Core Course Content**

Course Title: Plant Diversity and Human Welfare	Course Credits: 3
Course Code: BOTOE401	L-T-P per week: 3-0-0
Total Contact Hours: 42	
Formative Assessment Marks:40	Summative Assessment Marks:60

Pedagogy: Written Assignment/Presentation/Project / Term Papers/Seminar/Field studies

Formative Assessment		
Assessment Occasion	Assessment type	Weightage in Marks
C1 First component	Test-40 marks test for 90 minutes	10
C1 Second Component	Assignment	10
Quiz		10
Presentation		10
Total		40

Course Objectives:

1. Recognizing the variety of plant species and their classification.
2. Understanding the ecological role of plants in ecosystems.
3. Exploring how plants contribute to food security, medicine, and raw materials.
4. Analyzing the role of plants in environmental sustainability and climate regulation

Course Learning Outcomes

1. Develop understanding of the concept and scope of plant biodiversity
2. Identify the causes and implications of loss of biodiversity
3. Apply skills to manage plant biodiversity

COURSE CONTENT

Units	Course Content	Teaching hours
Unit-I	Plant Diversity and its Scope Levels of biodiversity: Genetic, Species and Ecosystem; Agro-biodiversity and cultivated plant taxa and related wild taxa. Values and uses of Biodiversity, Methodologies for valuation, Ethical and aesthetic values, Uses of plants; Ecosystem services.	14
Unit-II	Loss of Biodiversity and Management of Plant Biodiversity Loss of biodiversity-causes and implications, Hotspots of biodiversity, extinction of species, projected scenario for biodiversity loss. Organizations associated with biodiversity management, IUCN, UNEP, WWF, UNESCO, NBPGR; Methodology for execution; Biodiversity legislation; Information management and communication.	14
Unit-III	Conservation of Biodiversity, Role of Plants in Relation to Human Welfare Conservation of genetic, species and ecosystem diversity, <i>In situ</i> and <i>ex situ</i> conservation strategies, India's biodiversity and its conservation Social approaches to conservation, Biodiversity awareness programmes, Sustainable development. Importance of forestry their utilization and commercial aspects; Avenue trees; Ornamental plants of India; Alcoholic beverages; Fruits and nuts; Wood and its uses; their commercial importal,	14

References

Sl. No	Text books
1.	Krishnamurthy, K.V. (2004).An Advanced Text Book of Biodiversity-Principles and Practices. Oxford and IBH Publications Co. Pvt. Ltd. New Delhi.
2.	Singh, J. S., Singh, S.P. and Gupta, S.(2006). Ecology Environment and Resource Conservation. Anamaya Publications, New Delhi, India.
3.	Reddy, K.V. and Veeraiah, S. (2010). Biodiversity and Plant Resources. Aavishkar publication, New Delhi.
4.	Heywood, V.H. and Watson, R.T.(1995). Global biodiversity and Assessment. Cambridge University Press.

**SCHEME OF BOTANY THEORY EXAMINATION
IV SEMESTER
MODEL QUESTION PAPER**

Title of the Paper: PLANT DIVERSITY AND HUMAN WELFARE

Time: 2 Hours

Max Marks- 60

Instructions: Draw neat labelled diagrams wherever necessary

I. Define/Explain any Four of the following

2X4=8 Marks

- 1.
- 2.
- 3.
- 4.
- 5.
- 6.

II. Answer any Four of the following

5X4=20 Marks

- 7.
- 8.
- 9.
- 10.
- 11.
- 12.

III. Answer any Four of the following

8X4=32 Marks

- 13.
- 14.
- 15.
- 16.
- 17.
- 18.

Weightage of Marks OPEN ELECTIVE – 3-1				
Units	2 marks	5 marks	8 marks	Total Mks.
I	2X2=4	5X2=10	8X2=16	30
II	2X2=4	5X2=10	8X2=16	30
III	2X2=4	5X2=10	8X2=16	30
	12 Marks	30Marks	48 Marks	90 Marks

