

MSc Botany

PROGRAM SPECIFIC OUTCOME

1. Identify algae from different habitat
2. Identification of mushrooms
3. Identification of fungi outside the syllabus
4. Identification of Bryophytes from different habitat
5. Identification of Pteridophytes different habitat
6. Analysis of water quality
7. Analysis of soil
8. Community analysis
9. Phytoplankton counting
10. Identification of trophic levels, food webs and food chains, plant diversity (species and community).
11. Find the consequences and possible solutions of common environmental problems
12. Field identification of Indian gymnosperms
13. Identification of meiosis stages in different plants
14. Identification of anomalous primary and secondary features in plants
15. Identification of different types of nodes in plants
16. Identification of wood
17. Gene mapping, human pedigree analysis
18. Assay of amylase enzyme from germinating seeds
19. Quantitative estimation of reducing sugar
20. Separation and analysis of lipids and amino acids
21. Quantitative estimation of protein
22. Estimation of total phenolics.
23. Estimation of peroxidase activity.
24. Estimation of catalase activity
25. measure the size of plant object using micrometry
26. Calibrate the pH meter and test the pH of different sample solutions.
27. Estimate the concentration of the any sample using calorimeter or spectrophotometer.
28. Prepare any plant extract and perform TLC.
29. Analysis of data through various biostatistical tools
30. Preparation of permanent slides of various plant material
31. Estimation of proline, phenol and peroxidase activity in plant tissues affected by biotic/abiotic stresses
32. Separation of photosynthetic pigments by TLC/paper chromatography in different plants
33. Estimation of leghaemoglobin from root nodules
34. Doing hybridization techniques in self and cross pollinated plants to improve the character of the plant
35. Preparation of tissue cultured plant
36. DNA isolation and preparation of phylogenetic trees
37. Preparation of dichotomous keys from the same family and genus.

38. Identification of economically/ethnobotanically important plants in the surroundings and enumerate their use.
39. Detection of siderophore production by bacteria.
40. Estimation of Mycorrhizal colonization in roots.
41. Isolation of Azotobacter from various soil.
42. Blood group determination
43. Production of Wine, Vinegar