

DEPARTMENT OF BOTANY

CURRICULUM PLAN 2022-2023 (ODD SEMESTER)

Dr. Priyanka Verma and Dr. Monika Keisham

Semester III

Biofertilizers (Practical)

(BHSE3) Skill-Enhancement Elective Course-SEC

Topic	Approximate Schedule (Monthwise)	Assignment/Class Test/Presentation	Suggested Reading
1. Isolation of <i>Anabaena</i> from <i>Azolla</i> leaf 2. Study of <i>Rhizobium</i> from root nodules of leguminous plants by Gram staining method 3. Test for pH, NO ₂ , SO ₄ , Cl and organic matter of different composts 4. Observation of mycorrhizae from roots.	August-September, 2022	Practical record checking	Vayas,S.C, Vayas, S., Modi, H.A. (1998). Bio-fertilizers and organic Farming. Nadiad, Gujarat: Akta Prakashan.
5. Isolation of arbuscular mycorrhizal spores from rhizospheric soil 6. Spots, Specimen /photographs of earthworm, <i>Azolla</i> , arbuscules, vesicles 7. Biocontrol photographs - pheromons trap, <i>Trichoderma</i> , <i>Pseudomonas</i> , Neem etc: Identification and application 8. Photographs of biocompost methods.	October, 2022	Practical record checking	

9. Projects on any topic mentioned in the syllabus, with Rhizobium technology, AMF technology, Organic farming, vermicomposting,, biocompost, <i>Azolla</i> culture.	November-December, 2022	Practical record checking Revision of Syllabus Mock Test	
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