

Agricultural Microbiology Course Finishers Training Program

This capstone-level program consolidates the core knowledge of agricultural microbiology, offering intensive review sessions and hands-on applications to ensure field competence and exam preparedness.

Note: Below modules are designed keeping high end industrial professionals into consideration. Please refer individual protocols below for affordable prices.

Soil and Rhizosphere Microbiology

Agricultural Microbiology Training Module

Fee: Rs 32000/-

Protocols List

- 1. Rhizosphere Microbial Community Profiling
- 2. Plant Growth-Promoting Rhizobacteria (PGPR) Characterization
- 3. Nitrifying and Denitrifying Bacteria Isolation
- 4. Mycorrhizal Fungi Assessment Techniques
- 5. Soil Enzyme Activity Assays (e.g., Dehydrogenase, Phosphatase)
- 6. Nitrogen Fixation Bioassays in Legumes
- 7. Molecular Characterization of Rhizobium Isolates
- 8. Use of Metagenomics for Soil Microbial Diversity
- 9. Soil Respiration Rate Measurements
- 10. Carbon and Nitrogen Mineralization Experiments
- 11. Root Exudate-Microbe Interaction Studies
- 12. Antagonistic Microbial Screening for Biocontrol
- 13. Soil DNA Extraction and qPCR Quantification
- 14. Microbial Biomass Carbon/Nitrogen Estimation

Compost, Biomanure and Biofertilizer

Microbiology

Agricultural Microbiology Training Module

Fee: Rs 38000/-

Protocols List

- 1. Compost Maturity Index Testing
- 2. Phosphate Solubilizing Bacteria (PSB) Quantification
- 3. Azotobacter and Azospirillum Isolation Protocols
- 4. Quality Control Testing for Commercial Biofertilizers
- 5. Production of Liquid Biofertilizers Using Fermenters
- 6. Shelf-Life Stability Testing of Bioformulations
- 7. Mass Production of Trichoderma spp.
- 8. Carrier Material Selection and Compatibility Testing
- 9. Mycorrhiza Inoculum Development and Packaging
- 10. Cell Count Standardization Using Haemocytometer
- 11. Compatibility Testing of Microbial Consortia
- 12. Evaluation of Potash Mobilizing Microbes in Field Trials
- 13. Pilot Scale Production of Enriched Vermicompost

Agro-Environmental Microbiology

Agricultural Microbiology Training Module

Fee: Rs 29000/-

Protocols List

- 1. Pesticide Degrading Microbial Screening
- 2. Bioremediation Microbe Isolation from Polluted Fields
- 3. Assessment of Microbial Volatile Organic Compounds (mVOCs)
- 4. Pathogen Suppression Bioassays in Contaminated Soils
- 5. Soil Heavy Metal Tolerance Index Calculation in Bacteria
- 6. Microbial Indicators for Soil Health Monitoring
- 7. Greenhouse Gas Emission Reduction via Microbial Inoculation
- 8. Fate of Microbial Inoculants in Agricultural Ecosystems
- 9. Biosurfactant Production from Soil Bacteria
- 10. Fungal Bioremediators Isolation and Field Trials

Plant-Microbe Interaction Studies

Agricultural Microbiology Training Module

Fee: Rs 42000/-

Protocols List

- 1. Endophyte Isolation and Functional Characterization
- 2. ISR (Induced Systemic Resistance) Assays in Model Crops
- 3. Confocal Microscopy for Plant-Microbe Colonization
- 4. Molecular Docking of Microbial Effectors with Plant Receptors
- 5. Screening for ACC Deaminase-Producing Bacteria
- 6. Biotic Stress Tolerance Assays with Microbial Priming
- 7. Quorum Sensing Modulation by Root Microbes
- 8. Plant Transcriptomics Response to Microbial Inoculants
- 9. Use of Split-Root Systems in Plant-Microbe Experiments
- 10. GFP Tagging and Tracking of Rhizobacteria in Soil
- 11. In vitro Plant-Microbe Dual Culture Assays
- 12. Biocontrol Efficiency of Microbes Against Root Pathogens

Individual Protocols Under Agricultural Microbiology Course Finishers Training Program

- 1. Rhizosphere Microbial Community Profiling | Fee: Contact Us
- 2. Plant Growth-Promoting Rhizobacteria (PGPR) Characterization | Fee: Contact Us
- 3. Nitrifying and Denitrifying Bacteria Isolation | Fee: Contact Us
- 4. Mycorrhizal Fungi Assessment Techniques | Fee: Contact Us
- 5. Soil Enzyme Activity Assays | Fee: Contact Us
- 6. Nitrogen Fixation Bioassays in Legumes | Fee: Contact Us

7.	Molecular Characterization of Rhizobium Isolates Fee: Contact Us
8.	Metagenomics for Soil Microbial Diversity Fee: Contact Us
9.	Soil Respiration Rate Measurements Fee: Contact Us
10.	Carbon and Nitrogen Mineralization Experiments Fee: Contact Us
11.	Root Exudate-Microbe Interaction Studies Fee: Contact Us
12.	Antagonistic Microbial Screening Fee: Contact Us
13.	Soil DNA Extraction and qPCR Quantification Fee: Contact Us
14.	Microbial Biomass Carbon/Nitrogen Estimation Fee: Contact Us
15.	Compost Maturity Index Testing Fee: Contact Us
16.	Phosphate Solubilizing Bacteria Quantification Fee: Contact Us
17.	Azotobacter and Azospirillum Isolation Fee: Contact Us
18.	Quality Control of Commercial Biofertilizers Fee: Contact Us
19.	Liquid Biofertilizers Production in Fermenters Fee: Contact Us
20.	Shelf-Life Stability Testing of Bioformulations Fee: Contact Us
21.	Trichoderma Mass Production Fee: Contact Us
22.	Carrier Material Compatibility Testing Fee: Contact Us
23.	Mycorrhiza Inoculum Development Fee: Contact Us
24.	Microbial Consortia Compatibility Testing Fee: Contact Us
25.	Potash Mobilizing Microbes in Field Trials Fee: Contact Us
26.	Pilot Scale Vermicompost Production Fee: Contact Us
27.	Pesticide Degrading Microbes Screening Fee: Contact Us
28.	Bioremediation Microbe Isolation Fee: Contact Us
29.	Assessment of mVOCs from Microbes Fee: Contact Us
30.	Pathogen Suppression Bioassays Fee: Contact Us
31.	Soil Heavy Metal Tolerance Index Fee: Contact Us
32.	Microbial Indicators of Soil Health Fee: Contact Us

33. GHG Emission Reduction via Microbes | Fee: Contact Us 34. Fate of Inoculants in Agri Ecosystems | Fee: Contact Us 35. Biosurfactant Production by Soil Bacteria | Fee: Contact Us 36. Fungal Bioremediators Field Testing | Fee: Contact Us 37. Endophyte Isolation and Characterization | Fee: Contact Us 38. ISR Assays in Crops | Fee: Contact Us 39. Microscopy of Plant–Microbe Interactions | Fee: Contact Us 40. Molecular Docking of Microbial Effectors | Fee: Contact Us 41. ACC Deaminase Activity Assays | Fee: Contact Us 42. Microbial Priming for Stress Tolerance | Fee: Contact Us 43. Quorum Sensing Modulation Analysis | Fee: Contact Us 44. Plant Transcriptome Changes Upon Inoculation | Fee: Contact Us 45. Split-Root Experiments | Fee: Contact Us 46. GFP Tagging of Soil Microbes | Fee: Contact Us 47. Dual Culture Plant–Microbe Assays | Fee: Contact Us 48. Biocontrol Screening Against Root Pathogens | Fee: Contact Us Please contact on +91-7993084748 for more details :Cant Come to Hyderabad or Chennai or Bangalore? No Problem, You can do it in Virtual /

Online Mode