

Training Programme and key areas

Institute/University	Field	Key areas
Bhopal Memorial Hospital and Research Centre, Bhopal	Animal Biotechnology	<ul style="list-style-type: none"> Ø Cytogenetics Ø Fluorescence <i>in-situ</i> hybridization (FISH) technique Ø Molecular Diagnostics Ø Real Time-Polymerase Chain Reaction(RT-PCR) Technique Ø Enzyme-linked Immunosorbent Assay (ELISA) & Radial Immunodiffusion (RID)
Directorate of Weed Science Research, Jabalpur	Agriculture Biotechnology	<ul style="list-style-type: none"> Ø Isolation of soil microbes Ø Identification of microbes Ø Biochemical characterization of bacteria Ø Protein extraction - Polyacrylamide Gel Electrophoresis (PAGE) Ø DNA extraction - Agrose Gel Electrophoresis (AGE)
State Forest Research Institute, Jabalpur	Plant Tissue Culture	<ul style="list-style-type: none"> Ø Tissue Culture Ø Cryopreservation Ø HPLC-High-Performance Liquid Chromatography Ø DNA Finger Printing & Sequencing, Gene Mapping Ø DNA Transformation
Dr. Hari Singh Gour Vishwavidyalaya, Sagar	Microbial Biotechnology	<ul style="list-style-type: none"> Ø Cultivation of Microorganisms Ø Characterization of Microbes Ø Microbial Genetics Ø Immobilization of Bioactive Molecules Ø Mushroom cultivation
Devi Ahilya Vishwavidyalaya, Indore	Enzymes and Enzyme Technology	<ul style="list-style-type: none"> Ø Extraction & Purification of Enzymes Ø Enzyme Assay Ø Immobilization of Enzyme Ø Activity measurement Assay Ø Western blotting
Jiwaji University, Gwalior	Immuno & Molecular Diagnostics	<ul style="list-style-type: none"> Ø DNA extraction Ø Spectrophotometry Ø RFLP-Restriction Fragment Length Polymorphism Ø RAPD-Random Amplified Polymorphic DNA Ø PCR-Polymerase Chain Reaction Technique
1. Maulana Azad National Institute of Technology, Bhopal 2. Barkatullah University, Bhopal	Bioinformatics	<ul style="list-style-type: none"> Ø Biological databases Ø Biological sequence analysis Ø Computational phylogenetic analysis Ø Data Warehousing and data mining Ø Biological sequence analysis Ø Multiple sequence alignment Ø Structural visualization tools