

Curriculum M.Phil Biotechnology

COURSE TITLE	CREDITS
Modern Biotechnology: Principles & Applications	3
Biostatistics & Laboratory Mathematics	3
Bioethics, Biosecurity, Biosafety& Dual Use Education	3
Bioprocess Technology	3
Advances in Cell and Molecular Biology	3
Recent trends in Molecular Diagnostics	3
Research Methods in Biotechnology	3
Advances in Environmental Biotechnology	3
Biotechnology Law & Regulation	3
Molecular Basis of Plant Development	3
Advances in Pharmacogenomics	3
Advances in Molecular Genetics	3
Advances in Protein Chemistry	3
Advances in Bioinformatics	3
Biophysics	3
Advances in Fermentation Technology	3
Advances in Immunology	3
Metabolic Pathways in Plants	3
Regulation of Gene Expression	3
Molecular Evolution	3
Molecular Basis of Plant Breeding	3
Advances in Fungal Biotechnology	3
Advances in Microbiology	3
Advances in Microbial Genetics	3
Recent trends in Biochemical Engineering	3
Protein Engineering and Enzyme Technology	3
Bioremediation and Biodegradation	3
Biotechnology of Nonrenewable Resources	3

Advances in Plant Biotechnology	3
Metabolic Engineering and Biofuels	3
Advances in Agriculture Biotechnology	3
Applications of Nano-biotechnology	3
Advances in Industrial Biotechnology	3
Advances in Animal Biotechnology	3
Advances in Biosensor Technology	3
Forensic Sciences	3
Advances in Plant Tissue Culture	3
Advances in Animal Cell Culture	3
Medicinal Plant Biotechnology	3
Advances in Recombinant DNA Technology	3
Biopharming in Plants, Principles and Techniques	3
Advances in Proteomics	3
Advances in Genomics	3
Microbial Enzyme Technology	3
Biological Safety and Risk Management	3
Advances in Biochemistry	3
Cellular Signaling	3
Advances in Health Biotechnology	3
Advances in Vaccine Research	3
Molecular Systematics	3
Biostatistics and Computation	3
Advances in Transplastomic Technology and Biopharming	3
Structural Biology	3
Nanobiotechnology	3
Biosensors	3
Environmental Toxicology	3
Environmental Health	3
Biodegradation of Environmental Pollutants	3

Human Molecular Genetics	3
Advances in Immunology and Immunogenetics	3
Medical Biochemistry	3
Industrial Biotechnology	3
Molecular Plant Microbes Interaction	3
Biocontrol	3
Environmental Microbiology	3
Molecular Plant Pathology	3
Genomics, Proteomics and Bioinformatics	3
Molecular Virology	3
Principles and Practice in Biosafety	3
Comparative Genomics in Crop Plants	3
Protein Engineering	3
Cell Signaling	3
Applications of Biotechnology	3
Biochemistry	3
Cell and Molecular Biology	3
Principles of Biotechnology	3
Modern Techniques in Biotechnology	3