

## **MSc – Bio Technology**

### **SEM-I**

Biochemistry and Biomolecules  
Molecular Genetics  
Molecular Cell Biology  
Microbiology and Microbial Bio-process technology  
Practical I - (A) Biochemistry  
Practical I - (B) Molecular Cell Biology  
Practical I - (C) Molecular Genetics  
Practical I - (D) Microbiology

### **SEM-II**

Plant Biotechnology  
Genetic Engineering  
Practical II - (A) Plant Biotechnology  
Practical II – (B) Genetic Engineering  
Tissue Engineering  
Enzyme technology  
Principles of gene manipulation technology

### **SEM-III**

Paper-11 Core: Genomics and proteomics  
Paper-12 Core: Immunology & Immunotechnology  
Paper-13 Core: Practical III Immunology & Immunotechnology  
Paper-14 Core: a Elective: Biophysics, Biostatistics, and computer applications  
Paper-14b Elective: Nanobiotechnology  
Paper-15 Extra-disciplinary: Introduction to fermentation Biotechnology

### **SEM-IV**

Paper-16 Core: Environmental biotechnology  
Paper-17 Elective: Pharmaceutical Biotechnology  
Paper-18 Elective: Bioethics, IPR, Human rights and social issues  
Paper-19 Projects Dissertation and Viva Voce  
Paper-20 Project Works