

M.Sc-I Biotechnology as per NEP2020

Program outcomes for M.Sc Biotechnology for 2023-2024

- PO1** Gain and apply fundamental practical and theoretical knowledge of all the disciplines in life sciences with emphasis on Biotechnology.
- PO2** Earn a Master's Degree with specialization in Biotechnology.
- PO3** graduates will be able to understand the need and impact of Biotechnological solutions on environment and societal context keeping in view need for sustainable solution.
- PO4** graduates will be able to demonstrate scientific methodology and industrial management when dealing with pharmaceutical industries in Biotechnology.
- PO5** To give an insight in developing skills and knowledge in changing Biotechnological environment globally.

Subject Offered	Course Outcome paper wise for M.Sc-I Biotechnology for 2023-24
DSC21MBT11 Biological Chemistry	At the end of this course students will be able to: CO 1. Understand the concept of origin of Life CO2. Demonstrate the Importance of Carbohydrates. CO 3. Perceive knowledge about Proteins. CO 4. Illustrate the importance of lipids.
DSC21MBT12 Microbial technology	At the end of this course students will be able to: CO1.To describe the micro biome and microbial diversity.. CO2. To study Characteristics and Salient features of major groups of Bacteria. CO 3. Outline line Microbial growth kinetics. CO 4. Appreciate the relation between microbes and environment..
DSE21MBT11 Environmental Biotechnology and Ecology	At the end of this course students will be able to: CO 1. Classify and manage different waste generated. CO2. Discover microorganisms useful in biodegradation of hazardous substances. CO 3. To study renewable and non-renewable natural resources CO 4. To learn different concept of evolution.
DSE21MBT12 Genetics and Basic Cell Biology	At the end of this course students will be able to: CO 1. Learn the concept of Genetics CO2. Understand the mechanism of transfer of characters. CO 3. Classify different characters & functions of cellular organelles. CO 4.Elaborate the process Cellular Transport.
RMD21MBT11 Research Methodology	At the end of this course students will be able to: CO 1. To understand the different types of research work. . CO2. To present the research work scientifically CO 3. To acquaint with latest good laboratory practices and instrumentation required for research. CO 4.study different technique in sample analysis.
DSC21MBT19 Techniques in Biological Chemistry and Microbial Technology	CO 1. To understand the different types of estimation of Biological compounds. . CO2. To study the Biochemistry of Biomolecules. CO 3. To acquaint with latest good laboratory practices in Microbiology CO 4. To understand the Microbial techniques.
MIN21MBT19 Techniques in Environmental Biotechnology and cell Biology	CO1 To study water pollution and its quality. CO2 To outline the importance all abiotic factor. CO3.To study haploid and diploid cell division CO4 To study the structure of Mitochondria and Choloplast.

S. S. S.
M. SC. CO-ORDINATOR

DEPARTMENT OF BIOTECHNOLOGY