

MSc Biochemistry

- The course gives the students an understanding about various chemical processes and aspects in living organisms at the molecular level and to use the knowledge for the welfare of the society.
- The students gain knowledge about clinical and molecular diagnostics, immune system, enzymes, genetics, endocrine hormones and signaling which helps them to correlate for the diagnosis of various disease and disorders.
- They gain invaluable insight regarding advances in thrust areas of biochemistry and are well equipped with practical skills via project works.
- After completion of M.Sc., Biochemistry course, students will be ready to face the competitive world in both academic and research areas.
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Subjects

Semester 1	Semester2	Semester 3	Semester 4
1 BI 101T: Chemistry and Metabolism of Proteins and Lipids and Porphyrins (Core)	1 BI 20T: Enzymology (Core)	1 BI 301T: Gene Regulation and Genetic Engineering (Core)	1 BI 401T: Biostatistics and Bioinformatics (Core)
2 BI 102T: Chemistry and metabolism of carbohydrates, Vitamins and Nucleic acids (Core)	2 BI 202T: Molecular Biology (Core)	2 BI 302T: Immunology and Immunotechnology (Core)	2 BI 402T: Cell-Cell Junctions and Signal Transduction (Core)
3 BI 103T: Bioanalytical Techniques (Core)	3 BI 203T: Biochemical Genetics and Model Organisms (Core)	3 BI 303T (Elective) A: Nutrition and Clinical Biochemistry / B: Advanced Applied Biochemistry	3 BI 403T: Bacteriology and Virology (Elective)
4 BI 104T: Bioenergetics and Cell Biology (Core)	4 BI 204T: Endocrinology and Metabolic Disorders (Core)	4 BI 304T: Human Physiology and Xenobiotics (Elective)	4 BI 404T: Biotechnology (Elective)