

BSc (H) Biotechnology-Course structure

Semester 1				Semester 2			
S.No	Course Code	Course Name	Credits	S.No	Course Code	Course Name	Credits
1.	BTBSc101	Biochemistry & Metabolism	4	1.	BTBSc102	Mammalian Physiology	4
2.	BTBSc103	Cell Biology	4	2.	BTBSc104	Plant Physiology	4
3.	BTBSc105	English Proficiency	2	3.	BTBSc106	Environmental Studies	4
4.	BTBSc107	Biotechnology and Human Welfare	2	4.	BTBSc108	Bioethics and Biosafety	4
5.	BTBSc109	Biochemistry & Cell Biology Lab	3	5.	BTBSc110	Physiology Lab	3
Semester 3				Semester 4			
S.No	Course Code	Course Name	Credits	S.No	Course Code	Course Name	Credits
1.	BTBSc201	Genetics	4	1.	BTBSc202	Molecular Biology	4
2.	BTBSc203	General Microbiology	4	2.	BTBSc204	Immunology	4
3.	BTBSc205	Chemistry – 1	4	3.	BTBSc206	Chemistry -2	4
4.	-	SEC1	4	4.	-	SEC2	4
5.	BTBSc207	Developmental Biology	4	5.	BTBSc208	Entrepreneurship Development	4
6.	BTBSc209	Genetics & Microbiology Lab	2	6.	BTBSc210	Molecular Biology & Immunology Lab	2
7.		SEC1 Lab	2	7.		SEC2 Lab	2
Semester 5				Semester 6			
S.No	Course Code	Course Name	Credits	S.No	Course Code	Course Name	Credits
	BTBSc301	Bioprocess Technology	4	1.	BTBSc302	Bio Analytical Tools	4
1.	BScB303	Recombinant DNA Technology	4	2.	BTBSc304	Genomics and Proteomics	4
2.		DSE1	4	3.		DSE3	4
3.		DSE2	4	4.		DSE4	4
4.	BScB305	RDT & Bioprocess Lab	2	5.	BTBSc306	Bioanalytical Lab	2
5.		DSE Lab	2	6.		DSE Lab	2
Semester 7 and Semester 8							
S.No	Course Code	Course Name	Credits				

1	BTBSc400	Research Work	50
---	----------	---------------	----

GE: Generic Elective; AECC: Ability Enhancement Compulsory Course; SEC: Skill Enhancement Courses;
DSE: Discipline Specific Elective

SKILL ENHANCEMENT COURSES (any one)

Semester 3: • Molecular Diagnostics • Enzymology • Industrial Fermentations

Semester 4: • Drug Designing • Basics of Forensic Science

DISCIPLINE SPECIFIC ELECTIVE SUBJECTS (any two)

semesters 5 • Bioinformatics • Animal Biotechnology • Medical Microbiology • Animal Diversity I • Plant Diversity I • Plant Biotechnology

semesters 6 • Environmental Biotechnology • Intellectual Property Rights • Microbial Physiology
• Biostatistics • Ecology and Environment Management • Evolutionary Biology