

DIVISION OF SCIENCES (HUMANITIES)
Department: Biotechnology
Degree: Bachelor of Science (B.Sc.) – Honours

Semester I

Course Category	Course Code	Course Title	L	T/P	Cr
ABILITY ENHANCEMENT	AECC 111	English Communication Skills	4		4
	AECC 112	Moral Principles	2		2
CORE COURSES	BIOT 111	Biochemistry & Metabolism	4		4
	BIOT 112	Practicals in Biochemistry & Metabolism		2	2
	BIOT 113	Cell Biology	4		4
	BIOT 114	Practicals in Cell Biology		2	2
GENERIC ELECTIVE	BIOT 115	Biotechnology & Human Welfare	4		4
		TOTAL			22

Semester II

Course Category	Course Code	Course Title	L	T/P	Cr
ABILITY ENHANCEMENT	AECC 111	Environmental Studies	4		4
	AECC 112	Health and Wellness	2		2
CORE COURSES	BIOT 121	Mammalian Physiology	4		4
	BIOT 122	Practicals in Mammalian Physiology		2	2
	BIOT 123	Plant Physiology	4		4
	BIOT 124	Practicals in Plant Physiology		2	2
GENERIC ELECTIVE	BIOT 125	Bio-Entrepreneurship Development	4		4
		TOTAL			22

Semester III

Course Category	Course Code	Course Title	L	T/P	Cr
CORE COURSES	BIOT 211	Genetics	4		4
	BIOT 212	Practicals in Genetics		2	2
	BIOT 213	General Microbiology	4		4
	BIOT 214	Practicals in General Microbiology		2	2
	BIOT 215	Chemistry I	4		4
	BIOT 216	Practicals in Chemistry I		2	2
GENERIC ELECTIVE	BIOT 219	Intellectual Property Rights (IPR), Bioethics and Biosafety	4		4
SKILL ENHANCEMENT	BIOT 217 (A)	Enzymology	2		2
	BIOT 218 (A)	Practicals in Enzymology		2	2
		TOTAL			26

Semester IV

Course Category	Course Code	Course Title	L	T/P	Cr
CORE COURSES	BIOT 221	Molecular Biology	4		4
	BIOT 222	Practicals in Molecular Biology		2	2
	BIOT 223	Immunology	4		4
	BIOT 224	Practicals in Immunology		2	2
	BIOT 225	Chemistry II	4		4
	BIOT 226	Practicals in Chemistry II		2	2
GENERIC ELECTIVE	BIOT 229	Philosophy of Science	4		4
SKILL ENHANCEMENT	BIOT 227 (A)	Molecular Diagnostics	2		2
	BIOT 228 (A)	Practicals in Molecular Diagnostics		2	2
		TOTAL			26

Semester V

Course Category	Course Code	Course Title	L	T/P	Cr
CORE COURSES	BIOT 311	Bioprocess Technology	4		4
	BIOT 312	Practicals in Bioprocess Technology		2	2
	BIOT 313	Recombinant DNA Technology	4		4
	BIOT 314	Practicals in Recombinant DNA Technology		2	2
	BIOT 319	Seminar		2	2
DISCIPLINE ELECTIVE (ANY TWO)	BIOT 315 (A)	Plant Diversity I	4		4
	BIOT 316 (A)	Practicals in Plant Diversity I		2	2
	BIOT 317 (A)	Animal Diversity I	4		4
	BIOT 318 (A)	Practicals in Animal Diversity I		2	2
		TOTAL			26

Semester VI

Course Category	Course Code	Course Title	L	T/P	Cr
CORE COURSES	BIOT 321	Bio Analytical Tools	4		4
	BIOT 322	Practicals in Bio Analytical Tools		2	2
	BIOT 323	Genomics and Proteomics	4		4
	BIOT 324	Practicals in Genomics and Proteomics		2	2
	BIOT 329	Project		2	2
DISCIPLINE ELECTIVE (ANY TWO)	BIOT 325 (A)	Plant Diversity II	4		4
	BIOT 326 (A)	Practicals in Plant Diversity II		2	2
	BIOT 327 (A)	Animal Diversity II	4		4
	BIOT 328 (A)	Practicals in Animal Diversity II		2	2
		TOTAL			26