

DIVISION OF SCIENCES (HUMANITIES)
Department: Microbiology
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	MICR 111	Microbial World & Principles of Microbiology	4		4
	MICR 112	Practicals in Microbial World & Principles of Microbiology		2	2
	MICR 113	Bacteriology & Systematics	4		4
	MICR 114	Practicals in Bacteriology & Systematics		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	MICR 121	Basic Biochemistry	4		4
	MICR 122	Practicals in Basic Biochemistry		2	2
	MICR 123	Microbial Techniques & Instruments	4		4
	MICR 124	Practicals in Microbial Techniques & Instruments		2	2
GENERIC ELECTIVE	BIOT 125	Bioentrepreneurship Development	4		4
		TOTAL			22

Semester III

Course Category	Course Code	Course Title	L	T/P	Cr
CORE COURSES	MICR 211	Virology	4		4
	MICR 212	Practicals in Virology		2	2
	MICR 213	Mycology & Phycology	4		4
	MICR 214	Practicals in Mycology & Phycology		2	2
	MICR 215	Cell & Molecular Biology	4		4
	MICR 216	Practicals in Cell & Molecular Biology		2	2
SKILL ENHANCEMENT	MICR 217(A)	Microbial Diagnosis in Public Health	2		2
	MICR 218(A)	Practicals in Microbial Diagnosis in Public Health		2	2
GENERIC ELECTIVE	BIOT 219	Intellectual Property Rights, Bioethics & Biosafety	4		4

		TOTAL			26
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Semester IV

Course Category	Course Code	Course Title	L	T/P	Cr
CORE COURSES	MICR 221	Microbial Genetics	4		4
	MICR 222	Practicals in Microbial Genetics		2	2
	MICR 223	Microbial Physiology & Metabolism	4		4
	MICR 224	Practicals in Microbial Physiology & Metabolism		2	2
	MICR 225	Environmental Microbiology & Microbial Ecology	4		4
	MICR 226	Practicals in Environmental Microbiology & Microbial Ecology		2	2
SKILL ENHANCEMENT	MICR 227(A)	Microbial Quality Control in Food & Pharmaceutical Industries	2		2
	MICR 228(A)	Practicals in Microbial Quality Control in Food & Pharmaceutical Industries		2	2
GENERIC ELECTIVE	BIOT 229	Philosophy of Science	4		4
		TOTAL			26

Semester V

Course Category	Course Code	Course Title	L	T/P	Cr
CORE COURSES	MICR 311	Industrial Microbiology	4		4
	MICR 312	Practicals in Industrial Microbiology		2	2
	MICR 313	Medical & Veterinary Microbiology & Immunology	4		4
	MICR 314	Practicals in Medical & Veterinary Microbiology & Immunology		2	2
	MICR 319	Seminar		2	2
DISCIPLINE ELECTIVE (ANY TWO)	MICR 315(A)	Microbial Biotechnology	4		4
	MICR 316(A)	Practicals in Microbial Biotechnology		2	2
	MICR 317(A)	Plant Pathology & Disease Management	4		4
	MICR 318(A)	Practicals in Plant Pathology & Disease Mngmt		2	2
		TOTAL			26

Semester VI

Course Category	Course Code	Course Title	L	T/P	Cr
CORE COURSES	MICR 321	Agriculture, Food & Dairy Microbiology	4		4
	MICR 322	Practicals in Agriculture, Food & Dairy Microbiology		2	2
	MICR 323	Advanced Microbiology	4		4
	MICR 324	Practicals in Advance Microbiology		2	2
	MICR 329	Project		2	2

DISCIPLINE ELECTIVE (ANY TWO)	MICR 325(A)	Pharmaceutical Microbiology	4		4
	MICR 326(A)	Practicals in Pharmaceutical Microbiology		2	2
	MICR 327(A)	Microbial Enzyme Technology	4		4
	MICR 328(A)	Practicals in Microbial Enzyme Technology		2	2
		TOTAL			26