

DIVISION OF SCIENCES (HUMANITIES)**Department: Botany****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	BOTA 111	Phycology & Microbiology	4		4
	BOTA 112	Practicals in Phycology & Microbiology		2	2
	BOTA 113	Biomolecules & Cell Biology	4		4
	BOTA 114	Practicals in Biomolecules & 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	BOTA 121	Mycology & Phytopathology	4		4
	BOTA 122	Practicals in Mycology & Phytopathology		2	2
	BOTA 123	Archegoniate: Bryophytes, Pteridophytes & Gymnosperms	4		4
	BOTA 124	Practicals in Archegoniate		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	BOTA 211	Anatomy of Angiosperms	4		4
	BOTA 212	Practicals in Anatomy of Angiosperms		2	2
	BOTA 213	Economic Botany & Plant Resource Utilization	4		4
	BOTA 214	Practicals in Economic Botany & Plant Resource Utilization		2	2
	BOTA 215	Genetics & Cytogenetics	4		4
	BOTA 216	Practicals in Genetics & Cytogenetics		2	2
SKILL ENHANCEMENT	BOTA217 (A)	Nursery & Gardening	2		2
	BOTA218 (A)	Practicals in Nursery & Gardening		2	2
GENERIC ELECTIVE	BIOT 219	Intellectual Property Rights, Bioethics & Biosafety	4		4
		TOTAL			26

Semester IV

Course Category	Course Code	Course Title	L	T/P	Cr
CORE COURSES	BOTA 221	Molecular Biology	4		4
	BOTA 222	Practicals in Molecular Biology		2	2
	BOTA 223	Plant Ecology & Phytogeography	4		4
	BOTA 224	Practicals in Plant Ecology & Phytogeography		2	2
	BOTA 225	Plant Systematics	4		4
	BOTA 226	Practicals in Plant Systematics		2	2
SKILL ENHANCEMENT	BOTA227 (A)	Herbal Technology	2		2
	BOTA228 (A)	Practicals in Herbal Technology		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	BOTA 311	Reproductive Biology of Angiosperms	4		4
	BOTA 312	Practicals in Reproductive Biology of Angiosperms		2	2
	BOTA 313	Plant Physiology	4		4
	BOTA 314	Practicals in Plant Physiology		2	2
	BOTA 319	Seminar		2	2
DISCIPLINE ELECTIVE (ANY TWO)	BOTA315 (A)	Medicinal Botany	4		4
	BOTA316 (A)	Practicals in Medicinal Botany		2	2
	BOTA317 (A)	Analytical Techniques in Plant Sciences	4		4
	BOTA318 (A)	Practicals in Analytical Techniques in Plant Sciences		2	2
		TOTAL			26

Semester VI

Course Category	Course Code	Course Title	L	T/P	Cr
CORE COURSES	BOTA 321	Plant Metabolism	4		4
	BOTA 322	Practicals in Plant Metabolism		2	2
	BOTA 323	Plant Biotechnology & Genetic Engineering	4		4
	BOTA 324	Practicals in Plant Biotech & Genetic Engineering		2	2
	BOTA 329	Project		2	2
DISCIPLINE ELECTIVE (ANY TWO)	BOTA325 (A)	Plant Breeding	4		4
	BOTA326 (A)	Practicals in Plant Breeding		2	2
	BOTA327 (A)	Industrial & Environmental Microbiology	4		4
	BOTA328 (A)	Practicals in Industrial & Environmental Microbio		2	2
		TOTAL			26