



ADIKAVI NANNAYA UNIVERSITY: RAJMAHENDRAVARAM
Single Major B.Sc Botany (w.e.f:2023-24A.B)

B.Sc. BOTANY: MAJOR
w.e.f AY 2023-24 onwards

COURSE STRUCTURE

Year	Semester	Course	Title	No. Hrs./ Week	No. of Credits
I	I	1	Introduction to Classical Biology	5	4
		2	Introduction to Applied Biology	5	4
	II	3	Non-vascular Plants –(T)	3	3
			Non-vascular Plants –(P)	2	1
		4	Origin of Life and Diversity of Microbes –(T)	3	3
			Origin of Life and Diversity of Microbes –(P)	2	1
II	III	5	Vascular Plants –(T)	3	3
			Vascular Plants –(P)	2	1
		6	Plant Pathology and Plant Diseases–(T)	3	3
			Plant Pathology and Plant Diseases –(P)	2	1
		7	Plant Breeding–(T)	3	3
			Plant Breeding –(P)	2	1
		8	Plant Biotechnology–(T)	3	3
			Plant Biotechnology–(P)	2	1
	IV	9	Anatomy and Embryology of Angiosperms–(T)	3	3
			Anatomy and Embryology of Angiosperms–(P)	2	1
		10	Plant Ecology, Biodiversity and Phytogeography–(T)	3	3
			Plant Ecology, Biodiversity and Phytogeography–(P)	2	1
		11	Plant Resources and Utilization–(T)	3	3
			Plant Resources and Utilization–(P)	2	1
III	V	12	Cell Biology and Genetics–(T)	3	3
			Cell Biology and Genetics–(P)	2	1
		13	Plant Physiology and Metabolism–(T)	3	3
			Plant Physiology and Metabolism–(P)	2	1
		14 A	Organic Farming–(T)	3	3
			Organic Farming–(P)	2	1
			OR		
		14 B	Seed Technology–(T)	3	3
			Seed Technology–(P)	2	1
		15 A	Mushroom Culture Technology–(T)	3	3
			Mushroom Culture Technology–(P)	2	1
			OR		
		15 B	Plant Propagation Techniques–(T)	3	3
			Plant Propagation Techniques–(P)	2	1



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VII & VIII semesters detailed Syllabus will be available in due course of time.

Semester	Course No. & Title of the course	Hours/ week (Th.)	No. credits (Th.)	Hours/ week (Pr.)	No. credits (Pr.)
VII Core Courses	16 (A) Plant Systematics (OR) 16 (B) Plant Developmental Biology	3	3	2	1
	17 (A) Plant Molecular Biology (OR) 17 (B) Plant Genetic Engineering	3	3	2	1
	18 (A) Crop Physiology (OR) 18 (B) Plant Biochemistry	3	3	2	1
	19 (A) Phyto-medicines and Ethnobotany (OR) 19 (B) Herbal Technology	3	3	2	1
VII Skill Enhanced Courses (SEC)	20 (A) Soil fertility and Conservation (OR) 20 (B) Agroforestry	3	3	2	1
	21 (A) Phyto-biodiversity and Conservation (OR) 21 (B) Phytochemistry and Pharmacognosy	3	3	2	1
VIII Core Courses	22 (A) Bioinformatics and Computational Biology (OR) 22 (B) Omics in Plant Science	3	3	2	1
	23 (A) Plant Cytogenetics (OR) 23 (B) Biostatistics and Intellectual Property Rights	3	3	2	1
	24 (A) Biofertilizers and Biopesticides (OR) 24 (B) Industrial and Environmental Biotechnology	3	3	2	1
VIII Skill Enhanced Courses (SEC)	25 (A) Gardening and Landscaping (OR) 25 (B) Floriculture	3	3	2	1