

J.J. College of Arts and Science (Autonomous)
Sivapuram Post, Pudukkottai – 622 422
(Re-Accredited by NAAC with B⁺⁺ Grade – 4th Cycle)
Affiliated to Bharathidasan University, Tiruchirappalli

PG and Research Department of Botany

Course Structure for B.Sc. Botany
UG Botany 2023 – 2024

	Part	Course code	Course Title	Credit	Hrs/ Week	Marks CIA Ext		Total Marks
Sem- I	I	U1R3TL1/ HL1/FL1	Language - I (Tamil/Hindi/French)	3	6	25	75	100
	II	U1R3EL1	Language - II (English)	3	6	25	75	100
	III	U1R3BOCC1	Plant Diversity – I Algae	5	5	25	75	100
		U1R3BOCC2P	Major Practical-I (Covering CC1)	5	5	40	60	100
		U1R3BODSE1	Allied Zoology Course – I	3	4	25	75	100
	IV	U1R3SEC 1:1/1:2/1:3	1:1. Organic farming 1:2. Environmental Biotechnology 1:3. Nursery and Landscaping	2	2	25	75	100
		U1R3BOFC1	Foundation Course Basics of Botany	2	2	25	75	100
	Total			23	30			700
Sem- II	I	U2R3TL2/ HL2/FL2	Language - I (Tamil/Hindi/French)	3	6	25	75	100
	II	U2R3EL2	Language - II (English)	3	6	25	75	100
	III	U2R3BOCC3	Plant Diversity – II – Fungi, Bacteria, Viruses, Plant Pathology and Lichens	5	5	25	75	100
		U2R3BOCC4P	Major Practical-II - Fungi, Bacteria, Viruses, Plant Pathology and Lichens	5	5	40	60	100
		U2R3BODSE2P	Allied Zoology Practical -II	3	4	40	60	100
	IV	U2R3BOSEC 2:1/2:2/2:3	2:1 Mushroom Cultivation 2:2 Herbal Medicine 2:3 Global Climate Change	2	2	25	75	100
		U2R3BOSEC 3:1/3:2	3:1 Botanical Garden and Landscaping 3:2 Organic Farming	2	2	25	75	100
	Total			23	30			700
Sem- III	I	U3R3TL3/ HL3/FL3	Language Course – III (Tamil/Hindi/French)	3	6	25	75	100
	II	U3R3EL3	Language Course – III (English)	3	6	25	75	100

	III	U3R3BOCC5	Plant Diversity – III : Bryophytes, Pteridophytes, Gymnosperms and Paleobotany	5	5	25	75	100
		U3R3BOCC6P	Major Practical – III (Covering CC5)	5	5	40	60	100
		U3R3CHDSE3	Allied Chemistry Theory	3	4	25	75	100
	IV	U3R3VE	Value Education	2	2	25	75	100
		U3R3BOSEC 4:1/4:2	4:1 Herbal Technology 4:2 Entrepreneurial Opportunities in Botany	2	2	25	75	100
	Total			23	30			700
Sem- IV	I	U4R3TL4/ HL3/FL4	Language Course – IV (Tamil/Hindi/French)	3	5	25	75	100
	II	U4R3EL4	Language Course – IV (English)	3	5	25	75	100
	III	U4R3BOCC7	Anatomy and Embryology of Angiosperms.	5	5	25	75	100
		U4R3BOCC8P	Major Practical – IV (Covering CC7)	5	5	40	60	100
		U4R3CHDSE4P	Allied Chemistry Practical	3	5	40	60	100
	IV	U4R3BOSEC 5:1/5:2	5:1 Cultivation of Algae 5:2 Fermentation Technology	2	2	25	75	100
		U4R3BOSEC 6:1/6:2	6:1 Environmental Impact Analysis 6:2 Global Climate Changes	2	2	25	75	100
		U4R3ES	Environmental Studies	2	1	25	75	100
	Total			25	30			800
Sem- V	III	U5R3BOCC9	Plant Morphology, Taxonomy and Economic Botany	5	5	25	75	100
		U5R3BOCC10	Cell Biology, Molecular Genetics and Plant breeding	4	5	25	75	100
		U5R3BOCC11	Plant Ecology and Phytogeography	4	5	25	75	100
		U5R3BOCC12P	Major Practical –V (Covering CC9, 10 & 11)	4	5	40	60	100
		U5R3BODSE 5:1/5:2	5:1 Plant Biotechnology 5:2 Horticulture	3	5	25	75	100
		U5R3BODSE 6:1/6:2	6:1 Bio Nanotechnology 6:2 Forestry	3	5	25	75	100
	IV	U5R3BOINT	Internship	2	-	-	-	100
	Total			25	30			700
Sem- VI	III	U6R3BOCC13	Plant Physiology and Biochemistry	4	6	25	75	100
		U6R3BOCC14P	Major Practical – VI (Covering CC13)	4	5	40	60	100
		U6R3BOCC15PW	Project Work	4	6	-	-	100
		U6R3BODSE 7:1/7:2/7:3	7:1 Computer Applications in Botany 7:2 Forensic Botany	3	5	25	75	100

		U6R3BODSE 8:1/8:2	8:1 Vermitechnology 8:2 Natural Resource Management	3	3	25	75	100
	IV	U6R3BOSEC 7:1/7:2	7:1 Botany for Competitive Examinations 7:2 Aquatic Botany	2	3	25	75	100
		U6R3GS	Gender Studies	1	2	25	75	100
		-	Extension Activity	1	-	-	-	-
	Total			22	30	-	-	700
	Grand Total			141	-	-	-	4300

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PG and Research Department of Botany

Course Structure for M.Sc. Botany

Sem	Course code	Course Title	Credit	Hrs/ Week	Marks CIA Ext		Total Marks
Sem-I	P1R3BOCC1	Plant Diversity - I: Algae, Fungi, Lichens and Bryophytes	5	7	25	75	100
	P1R3BOCC2	Plant Diversity - II: Pteridophytes, Gymnosperms and Paleobotany	5	7	25	75	100
	P1R3BOCC3	Practical I- Covering CC1 and CC2	4	6	40	60	100
	P1R3BODSE 1:1/1:2/1:3/1:4	1. Microbiology, Immunology and Plant Pathology 2. Conservation of Natural Resources and Policies 3. Mushroom Cultivation 4. Phytopharmacognosy	3	5	25	75	100
	P1R3BODSE 2:1/2:2/2:3/2:4	1. Algal Technology 2. Ethnobotany, Naturopathy and Traditional Healthcare 3. Horticulture 4. Herbal Technology	3	5	25	75	100
	Total		20	30	-	-	500
Sem II	P2R3BOCC4	Taxonomy of Angiosperms and Economic Botany	5	5	25	75	100
	P2R3BOCC5	Plant Anatomy and Embryology of Angiosperms	5	5	25	75	100
	P2R3BOCC6P	Practical II – (Covering CC4, CC5)	4	5	40	60	100
	P2R3BODSE 3:1/3:2/3:3/3:4	1. Medicinal Botany 2. Phytochemistry 3. Research Methodology, Computer Applications & Bioinformatics 4. Biopesticide Technology	3	5	25	75	100
	P2R3BODSE 4:1/4:2/4:3	1. Applied bioinformatics 2. Intellectual Property Rights 3. Nanobiotechnology	3	5	25	75	100

	P2R3BOSEC 1:1/1:2	1.Agriculture and Food Microbiology 2.Biostatistics	2	5	25	75	100
	Total		22	30	-	-	600
Sem - III	P3R3BOCC7	Cell and Molecular Biology	5	6	25	75	100
	P3R3BOCC8	Genetics, Plant Breeding and Biostatistics	5	5	25	75	100
	P3R3BOCC10P	Practical – III (CC7, CC8 and CC9)	5	5	60	40	100
	P3R3BODSE 5:1/5:2	1. Organic, Indoor and Terrace Gardening 2. Bio-instrumentation	3	4	25	75	100
	P3R3BOSEC 2:1/2:2	1. Intellectual Property Rights 2. Bio-Fertilizers and Agriculture Sustainability	2	4	25	75	100
	P3R3BOINT	Internship	3	-	-	-	100
	Total		28	30			700
Sem - IV	P4R3BOCC11	Plant Biotechnology and Green Nanotechnology	5	5	25	75	100
	P4R3BOCC12	Plant Ecology, Conservation Biology and Environmental Sustainability	5	5	25	75	100
	P4R3BOCC13PW	Project Work	10	20	-	-	100
	Total		20	30			300
	Grand Total		90	-	-	-	2100

15. It is resolved to introduce '**Internship Programme**' newly in the third semester for the Post-graduate students. Internship will be done by the students at the end of the II Semester.
16. It is resolved to approve the curricula, course structure, syllabi and textbooks for the UG and PG programmes in Botany.
17. It is resolved to continue with the present scheme for CIA in relation to assignments, Mid-semester, Model examinations and their comparative weightage.

18. For Part V one credit will be awarded for UG students based on the participation in Extension and Outreach activities duly supervised by the tutors concerned.
19. The Board approved the revised curricula, course structure, syllabi (including those for semester I and II already introduced in the academic year 2023-2024) and textbooks for the UG and PG programmes in Botany.

Appendix – I
New Courses Introduced in Botany
B.Sc. BOTANY

S.No.	Course Code	Title of the Course
1.	U1R3BOCC1	Plant Diversity – I Algae
2.	U1R3SEC 1:2	Environmental Biotechnology
3.	U1R3SEC 1:3	Nursery and Landscaping
4.	U1R3BOFC1	Foundation Course Basics of Botany
5	U2R3BOCC3	Plant Diversity – II – Fungi, Bacteria, Viruses, Plant Pathology and Lichens
6.	U2R3BOSEC2:1	Mushroom Cultivation
7.	U2R3BOSEC2:2	Herbal Medicine
8.	U2R3BOSEC2:3	Global Climate Change
9.	U2R3BOSEC 3:1	Botanical Garden and Landscaping
10.	U3R3BOCC5	Plant Diversity – III : Bryophytes, Pteridophytes, Gymnosperms and Paleobotany
11	U3R3BOSEC4:1	Herbal Technology
12.	U3R3BOSEC4:2	Entrepreneurial Opportunities in Botany
13.	U4R3BOCC7	Anatomy and Embryology of Angiosperms.
14.	U4R3BOSEC5:1	Cultivation of Algae
15.	U4R3BOSEC5:2	Fermentation Technology
16.	U4R3BOSEC6:1	Environmental Impact Analysis
17.	U4R3BOSEC6:2	Global Climate Changes
18.	U5R3BOCC9	Plant Morphology, Taxonomy and Economic Botany
19.	U5R3BOCC10	Cell Biology, Molecular Genetics and Plant breeding
20.	U5R3BOCC11	Plant Ecology and Phytogeography
21.	U5R3BODSE5:1	Plant Biotechnology
22.	U5R3BODSE5:2	Horticulture
23.	U5R3BODSE6:1	Bio Nanotechnology
24	U5R3BODSE6:2	Forestry
25	U5R3BOINT	Internship
26	U6R3BOCC13	Plant Physiology and Biochemistry

27	U6R3BODSE7:1	Computer Applications in Botany
28	U6R3BODSE7:2	Forensic Botany
29	U6R3BODSE8:1	Vermitechnology
30	U6R3BODSE8:2	Natural Resource Management
31	U6R3BOSEC7:1	Botany for Competitive Examinations
32	U6R3BOSEC7:2	Aquatic Botany

Appendix – II
New Courses Introduced in Botany
M.Sc. BOTANY

S.No.	Course Code	Title of the Course
1.	P1R3BODSE1:1	Microbiology, Immunology and Plant Pathology
2.	P1R3BODSE1:2	Conservation of Natural Resources and Policies
3.	P1R3BODSE1:3	Mushroom Cultivation
4.	P1R3BODSE1:4	Phytopharmacognosy
5.	P1R3BODSE2:1	Algal Technology
6	P1R3BODSE2:2	Ethnobotany, Naturopathy and Traditional Healthcare
7	P1R3BODSE2:3	Horticulture
8	P1R3BODSE2:4	Herbal Technology
9	P2R3BODSE3:1	Medicinal Botany
10	P2R3BODSE3:2	Phytochemistry
11	P2R3BODSE3:3	Research Methodology, Computer Applications & Bioinformatics
12	P2R3BODSE3:4	Biopesticide Technology
13	P2R3BODSE4:1	Applied bioinformatics
14	P2R3BODSE4:2	Intellectual Property Rights
15	P2R3BODSE4:3	Nanobiotechnology
16	P2R3BOSEC1:1	Agriculture and Food Microbiology
17	P2R3BOSEC1:2	Biostatistics
18	P3R3BOCC7	Cell and Molecular Biology
19	P3R3BOCC8	Genetics, Plant Breeding and Biostatistics
20	P3R3BODSE 5:2	Bio-instrumentation
21	P3R3BOSEC2:1	Intellectual Property Rights
2 2	P3R3BOINT	Internship

Signature
21/3/14

Signature
21/3/14

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