

Dr. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY, CHHATRAPATI SAMBHAJINAGAR.

M. Sc. BOTANY SYLLABUS FOR UNIVERSITY DEPARTMENT AS PER NEP-2020

Illustrative Credit distribution structure for Two year P. G. programme with Multiple Entry and Exit option

Class: M. Sc. I year

ACADEMIC AUTONOMY

Semester: I Semester

Course Type	Course Code	Course Name	Teaching Scheme (Hrs./Week)		Credits Assigned		Total Credits	Scheme of Examination			
			Theory	Practical	Theory	Practical		Theory Maximum Marks 75		Practical Maximum Marks 25	
								CA 40%	SEE 60%	CA 40%	SEE 60%
Major Mandatory DSC	BOT/MJ/UD/500 (SAD265001T)	Cell and Molecular Biology	3	-	3	-	14	30	45		
	BOT/MJ/UD/501 (SAD265011T)	Biology & Diversity of Algae and Bryophytes	3	-	3	-		30	45		
	BOT/MJ/UD/502 (SAD265021T)	Taxonomy of Angiosperms	3	-	3	-		30	45		
	BOT/MJ/UD/503 (SAD265001P)	Practical based on BOT/MJ/UD/500 Cell and Molecular Biology	-	2	-	1				10	15
	BOT/MJ/UD/504 (SAD265011P)	Practical based on BOT/MJ/UD/501 Biology & Diversity of Algae and Bryophytes		2	-	1				10	15
	BOT/MJ/UD/505 (SAD265021P)	Practical based on BOT/MJ/UD/502 Taxonomy of Angiosperms	-	2	-	1				10	15
	BOT/MJ/UD/506 (SAD265031P)	Horticulture Techniques	-	4	-	2				20	30
DSE (Choose any one from pool of courses)	BOT/DSE/UD/507 (SBD265041T)	Crop Genetics and Plant Breeding – I	3	-	3	-	4	30	45		
	BOT/DSE/UD/508 (SBD265041P)	Practical based on BOT/DSE/UD/507 Crop Genetics and Plant Breeding – I	-	2		1				10	15
		OR									
	BOT/DSE/UD/509 (SBD265051T)	Mycology and Plant Pathology-I	3	-	3	-		30	45		
	BOT/DSE/UD/510 (SBD265051P)	Practical based on BOT/DSE/UD/509 Mycology and Plant Pathology-I		2	-	1				10	15
		OR									
	BOT/DSE/UD/511 (SBD265061T)	Taxonomy of Angiosperms – I	3	-	3	-		30	45		
	BOT/DSE/UD/512 (SBD265061P)	Practical based on BOT/DSE/UD/510 Taxonomy of Angiosperms – I	-	2	-	1				10	15
		OR									
	BOT/DSE/UD/513 (SBD265071T)	Advanced Plant Physiology and Biochemistry –I	3	-	3	-		30	45		
	BOT/DSE/UD/514 (SBD265071P)	Practical based on BOT/DSE/UD/513 Advanced Plant Physiology and Biochemistry –I	-	2	-	1			10	15	
RM	BOT/RM/UD/549 (SRD265101T)	Research Methodology	4	-	4	-	04				
			16	12	16	06	22 CREDITS				

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								CA 40%	SEE 60%	CA 40%	SEE 60%
Major Mandatory DSC	BOT/MJ/UD/550 (SAD265502T)	Cytology and Genetics	3	-	3	-	14	30	45		
	BOT/MJ/UD/551 (SAD265512T)	Plant Development and Reproduction	3	-	3	-		30	45		
	BOT/MJ/UD/552 (SAD265522T)	Biology and Diversity in Fungi and Microbes	3	-	3	-		30	45		
	BOT/MJ/UD/553 (SAD265502P)	Practical based on BOT/MJ/UD/550 Cytology and Genetics	-	2	-	1				10	15
	BOT/MJ/UD/554 (SAD265512P)	Practical based on BOT/MJ/UD/551 Plant Development and Reproduction		2	-	1				10	15
	BOT/MJ/UD/555 (SAD265522P)	Practical based on BOT/MJ/UD/552 Biology and Diversity in Fungi and Microbes	-	2	-	1				10	15
	BOT/MJ/UD/556 (SAD265532P)	Botanical Techniques	-	4	-	2				20	30
DSE (Choose any one from pool of courses)	BOT/DSE/UD/557 (SBD2655542T)	Crop Genetics and Plant Breeding – II	3	-	3	-	4	30	45		
	BOT/DSE/UD/558 (SBD265542P)	Practical based on BOT/DSE/UD/557 Crop Genetics and Plant Breeding - II	-	2	-	1				10	15
		OR									
	BOT/DSE/UD/559 (SBD265552T)	Mycology and Plant Pathology-II	3	-	3	-		30	45		
	BOT/DSE/UD/560 (SBD265552P)	Practical based on BOT/DSE/UD/559 Mycology and Plant Pathology-II	-	2		1				10	15
		OR									
	BOT/DSE/UD/561 (SBD265562T)	Taxonomy of Angiosperms – II	3	-	3	-		30	45		
	BOT/DSE/UD/562 (SBD265562P)	Practical based on BOT/DSE/UD/561 Taxonomy of Angiosperms – II	-	2	-	1				10	15
		OR									
	BOT/DSE/UD/563 (SBD265572T)	Advanced Plant Physiology and Biochemistry –II	3	-	3	-		30	45		
	BOT/DSE/UD/564 (SBD265572P)	Practical based on BOT/DSE/UD/563 Advanced Plant Physiology and Biochemistry –II	-	2	-	1			10	15	
RM	BOT/FP/UD/559 (SMD265612P)	OJT/FP/ Internship	-	8	-	4	04				
			12	20	12	10	22 CREDITS				

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								CA 40%	SEE 60%	CA 40%	SEE 60%
Major Mandatory DSC	BOT/MJ/UD/600 (SAD266003T)	Biology and Diversity of Pteridophytes and Gymnosperms	3	-	3	-	14	30	45	-	-
	BOT/MJ/UD/601 (SAD266013T)	Plant Ecology and Conservation	3	-	3	-		30	45	-	-
	BOT/MJ/UD/602 (SAD266023T)	Plant Biotechnology	3	-	3	-		30	45	-	-
	BOT/MJ/UD/603 (SAD266003P)	Practical based on BOT/MJ/UD/600 Biology and Diversity of Pteridophytes and Gymnosperms	-	2	-	1		-	-	10	15
	BOT/MJ/UD/604 (SAD266013P)	Practical based on BOT/MJ/UD/601 Plant Ecology and Conservation	-	2	-	1		-	-	10	15
	BOT/MJ/UD/605 (SAD266023P)	Practical based on BOT/MJ/UD/602 Plant Biotechnology	-	2	-	1		-	-	10	15
	BOT/MJ/UD/606 (SAD266033P)	Industrial Technology	-	4	-	2		-	-	20	30
DSE (Choose any one from pool of courses)	BOT/DSE/UD/607 (SBD266043T)	Crop Genetics and Plant Breeding – III	3	-	3	-	4	30	45	-	-
	BOT/DSE/UD/608 (SBD266043P)	Practical based on BOT/DSE/UD/607 Crop Genetics and Plant Breeding - III	-	2	-	1		-	-	10	15
		OR									
	BOT/DSE/UD/609 (SBD266053T)	Mycology and Plant Pathology-III	3	-	3	-		30	45	-	-
	BOT/DSE/UD/610 (SBD266053P)	Practical based on BOT/DSE/UD/609 Mycology and Plant Pathology-III	-	2		1		-	-	10	15
		OR									
	BOT/DSE/UD/611 (SBD266063T)	Taxonomy of Angiosperms – III	3	-	3	-		30	45	-	-
	BOT/DSE/UD/612 (SBD266063P)	Practical based on BOT/DSE/UD/611 Taxonomy of Angiosperms – III	-	2	-	1		-	-	10	15
		OR									
	BOT/DSE/UD/613 (SBD266073T)	Advanced Plant Physiology and Biochemistry –III	3	-	3	-		30	45	-	-
	BOT/DSE/UD/614 (SBD266073P)	Practical based on BOT/DSE/UD/613 Advanced Plant Physiology and Biochemistry –III	-	2	-	1		-	-	10	15
RP	BOT/FP/UD/649 (SRD266083P)	OJT/FP/Internship	-	4	-	4	04	-	-	40	60
			12	20	12	10	22 CREDITS				

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								CA 40%	SEE 60%	CA 40%	SEE 60%
Major Mandatory DSC	BOT/MJ/UD/650 (SAD266504T)	Bioprospecting and Plant Resource Utilization	3	-	3	-	14	30	45	-	-
	BOT/MJ/UD/651 (SAD266514T)	Pharmacognosy	3	-	3	-		30	45	-	-
	BOT/MJ/UD/652 (SAD266524T)	Plant Physiology and Metabolism	3	-	3	-		30	45	-	-
	BOT/MJ/UD/653 (SAD266504P)	Practical based on BOT/MJ/UD/650 Bioprospecting and Plant Resource Utilization	-	2	-	1		-	-	10	15
	BOT/MJ/UD/654 (SAD266514P)	Practical based on BOT/MJ/UD/651 Pharmacognosy	-	2	-	1		-	-	10	15
	BOT/MJ/UD/655 (SAD266524P)	Practical based on BOT/MJ/UD/652 Plant Physiology and Metabolism	-	2	-	1		-	-	10	15
	BOT/MJ/UD/656 (SAD266534P)	Genetic Engineering and Bioinformatics	-	4	-	2		-	-	20	30
DSE (Choose any one from pool of courses)	BOT/DSE/UD/657 (SBD266544T)	Crop Genetics and Plant Breeding – IV	3	-	3	-	4	30	45	-	-
	BOT/DSE/UD/658 (SBD266544P)	Practical based on BOT/DSE/UD/657 Crop Genetics and Plant Breeding - IV	-	2	-	1		-	-	10	15
		OR									
	BOT/DSE/UD/659 (SBD266554T)	Mycology and Plant Pathology-IV	3	-	3	-		30	45	-	-
	BOT/DSE/UD/660 (SBD266554P)	Practical based on BOT/DSE/UD/659 Mycology and Plant Pathology-IV	-	2		1		-	-	10	15
		OR									
	BOT/DSE/UD/661 (SBD266564T)	Taxonomy of Angiosperms – IV	3	-	3	-		30	45	-	-
	BOT/DSE/UD/662 (SBD266564P)	Practical based on BOT/DSE/UD/661 Taxonomy of Angiosperms – IV	-	2	-	1		-	-	10	15
		OR									
	BOT/DSE/UD/663 (SBD266574T)	Advanced Plant Physiology and Biochemistry –IV	3	-	3	-		30	45	-	-
	BOT/DSE/UD/664 (SBD266574P)	Practical based on BOT/DSE/UD/663 Advanced Plant Physiology and Biochemistry –IV	-	2	-	1		-	-	10	15
RP	BOT/FP/699 (SRD266584P)	FP	-	4	-	4	04	-	-	40	60
			12	20	12	10	22 CREDITS				

