Duration: 24 Months (2Years) Eligibility: Graduation with Science Subjects

COURSE STRUCTURE M.SC BOTANY SEMESTER Ist

Course Details				External Assessment		Internal Assessment				Credit Distribution			Allotted Credits
Course Code	Course Type	Course Title	Total	Major		Minor		Sessional ***					Subject wise
	course Type		Marks	Max Marks	Min Marks	Max Marks	Min Marks	Max Marks	Min Marks	L	Т	P	Distribution
Theory Grou	р												
6SMBO101	Core Course	Biology and Diversityof algae,Bryophytes,pteridophytes andGymnosperms	100	50	17	20	08	30	12	4	-	-	4
6SMBO102	Core Course	Biology and Diversity of Viruses, Bacteria and Fungi	100	50	17	20	08	30	12	4	-	-	4
6SMBO103	Core Course	Morphology, anatomy and taxonomyof angiospermic plant	100	50	17	20	08	30	12	4	-	-	4
6SMBO104	Core Course	Plant structureand Development	100	50	17	20	08	30	12	4	-	-	4
Practical Group				Term End Practical Exam		Lab Performance		Sessional				1	
6SMBO105	Practical	LAB - I	50	25	08	-	-	25	08	-	-	2	2
6SMBO106	Practical	LAB - II	50	25	08	-	-	25	08	-	-	2	2
	Grand Total		500				•		•	16	-	4	20

Minimum Passing Marks are equivalent to Grade D

Major- Term End Theory / Practical Exam

Minor- Pre University Test

Sessional weightage – Attendance 50%, Three Class Tests/ Lab Performance Assignment 50%

L- Lectures T- Tutorials P- Practical

Duration: 24 Months (2 Years) Eligibility: Graduation with Science Subjects

COURSE STRUCTURE M.SC BOTANY SEMESTER IInd

Course Details				External Assessment		Internal Assessment				Credit Distribution			Allotted Credits
Course Code	Course Type	Course Title	Total	Major		Minor		Sessional ***			_		Subject wise
			Marks	Max Marks	Min Marks	Max Marks	Min Marks	Max Marks	Min Marks	L	Т	P	Distribution
Theory Group)	•	•										
6SMBO201	Core Course	Plant physiology, Biochemistry and Metabolism	100	50	17	20	08	30	12	4	-	-	4
6SMBO202	Core Course	Biology and Diversity of Gymnosperms	100	50	17	20	08	30	12	4	-	-	4
6SMBO203	Core Course	Plant Resource Utilization And Conservation	100	50	17	20	08	30	12	4	-	-	4
6SMBO204	Core Course	Cell Biology and Genetics	100	50	17	20	08	30	12	4	-	-	4
Practical Grou	Practical Group				nd Practical Exam	Lab Performance Sessional		ional			I		
6SMBO205	Practical	Lab -I	50	25	08	-	-	25	08	-	-	2	2
6SMBO206	Practical	Lab-II	50	25	08	-	-	25	08	-	-	2	2
Skill Courses	Skill Courses							Sessi	ional				
	Skill Enhancement	Skill Enhancement Elective Course-I	50	1	-	-	-	50	20	1	-	1	2
	Grand Total		550							17		5	22

Minimum Passing Marks are equivalent to Grade D

Major- Term End Theory / Practical Exam

Minor- Pre University Test

Sessional weightage – Attendance 50%, Three Class Tests/ Lab Performance Assignment 50%

Skill Elective I – Any other course being offered in this semester as per the list given at the end of course structure.

L- Lectures T- Tutorials P- Practical

Duration: 24 Months (2 Years) Eligibility: Graduation with Science Subjects

Course Details				External Assessment		ANY SEMESTER HIrd Internal Assessment				Credit Distribution			Allotted Credits
Course Code	Course Type	Course Title	Total	Major		Minor		Sessional ***					Subject wise
course code	course Type	dourse Trace	Marks	Max Marks	Min Marks	Max Marks	Min Marks	Max Marks	Min Marks	L	T	P	Distribution
Theory Grou	p												
6SMBO301	Core Course	Biotechnology and tissue culture	100	50	17	20	08	30	12	4	-	1	4
6SMBO302	Core Course	Molecular biology of plant	100	50	17	20	08	30	12	4	-	-	4
****	Discipline Specific Elective	Elective –I (Select anyone from below given Elective-I)	100	50	17	20	08	30	12	4	-	-	4
****	Discipline Specific Elective	Elective –II (Select anyone from below given Elective-I)	100	50	17	20	08	30	12	4	-	-	4
Practical Gro	up				m End cal Exam			ional					
****	Practical	Lab -I	50	25	08	-	-	25	08	-	-	2	2
****	Practical	Lab-II	50	25	08	-	-	25	08	-	-	2	2
Skill Courses							Sess	ional					
	Skill Enhancement	Skill Enhancement Elective Course-1	50	-	-	-	-	50	20	1	-	1	2
	Grand Total		550							17	-	5	22

Minimum Passing Marks are equivalent to Grade D

Major- Term End Theory / Practical Exam

Minor- Pre University Test

Sessional weightage – Attendance 50%, Three Class Tests/ Lab Performance Assignment 50%

Skill Elective I – Any other course being offered in this semester as per the list given at the end of course structure.

I Lastures T Tutorials D Drastics

Duration: 24 Months (2Years) Eligibility: Graduation with Science Subjects

COURSE STRUCTURE M.SC BOTANY SEMESTER IVth

Course Details					External Assessment		Internal Assessment				Credi stribu	Allotted Credits	
Course Code	Course Type	Course Title	Total	Major		Minor		Sessional ***					Subject wise
	Joseph Lype		Marks	Max Marks	Min Marks	Max Marks	Min Marks	Max Marks	Min Marks	L	T	P	Distributio n
Theory Grou	р												
****	Discipline Specific Elective	Elective –III (Select anyone from below given Elective-I)	100	50	17	20	08	30	12	4	-	-	4
****	Discipline Specific Elective	Elective –IV (Select anyone from below given Elective-I)	100	50	17	20	08	30	12	4	-	-	4
Practical Group				Term End Practical Exam Lab Performance		Sessional							
****	Practical	LAB - 1	50	25	08	-	-	25	08	-	-	2	2
****	Practical	LAB - II	50	25	08	-	-	25	08	-	-	2	2
	Research Component	Project/Internship/Field work & Viva Voce	200	100	33	-	-	100	40	-	-	8	8
	Grand Total		500							8	-	12	20

Minimum Passing Marks are equivalent to Grade D

Major- Term End Theory / Practical Exam

Minor- Pre University Test

Sessional weightage – Attendance 50%, Three Class Tests/Lab Performance Assignment 50%

Compulsory Project/Dessertation with choice in any Disciplinery specific elective. Compulsory one paper presentation certificate in related dicipline.

L- Lectures T- Tutorials P- Practical

PROJECT

All the candidates of M.Sc. (Botany) are required to submit a project-report based on the work done by him/her during the project period. A detailed Viva shall be conducted by an external examiner based on the project report. Students are advised to see the detailed project related guidelines on the website of RNTU. (www.rntu.ac.in) under Project Guidelines for student section.

Outcome-The student will identify a problem on which he/she would be able to work, identify the scope of research on the chosen topic and will frame the objectives to be addressed in the project through a work plan.

SPECILIZATION WITH ELECTIVE

 ${
m *Note}$ - Students need to select any one group and choose any two subjects from selected group for Third and fourth semester.

	Electives for	Third Semester	Electives for Fourth Semester						
Course Code	Course Type	List of Electives	Course Code	Course Type	List of Electives				
GROUP E	LECTIVE -I	Name – Botany	GROUP E	GROUP ELECTIVE -III Name -Botany					
6SMBO303	Discipline Specific Elective-1	Plant Pathology	6SMBO401	Discipline Specific Elective-3	Tools and Techniques				
6SMBO304	Discipline Specific Elective-1	Plant Reproduction	6SMBO402	Discipline Specific Elective-3	Evolutionary and Economic Botany				
GROUP E	LECTIVE -II	NAME: Botany	GROUP ELECTIVE -I V Name – Botany						
6SMBO305	Discipline Specific Elective-2	Plant Ecology	6SMBO403	Discipline Specific Elective-4	Methods in Biology. Applied Biology Instrument, Biostatistics and Computer				
6SMBO306	BO306 Discipline Specific Elective-2 Plants & Society		6SMBO404	Discipline Specific Elective-4	Ethno Botany				

SKILL ENHANCEMENT ELECTIVE COURSES

Non-Technical									
Elective No.	Department/ Faculty Name								
	Faculty of Information Technology								
I	SCIT 201	Data Entry Operation	2(1+0+1)						
II	SCIT 301	Multimedia	2(1+0+1)						
III	SCIT 501	Web Designing with HTML	2(1+0+1)						
IV	SCMIT 201	Web Development	2(1+0+1)						
V	SCMIT 301	LINUX	2(1+0+1)						
		Faculty of Management	•						
I	SMGT 201	Briefing and Presentation Skills	2(1+0+1)						
II	SMGT 301	Resolving Conflicts and Negotiation Skills	2(1+0+1)						
III	SMGT 802	Entrepreneurship Development	2(1+0+1)						
		Faculty of Commerce							
I	SCOM 201	Tally ERP 9	2(1+0+1)						
II	SCOM 302	Multimedia	2(1+0+1)						
III	SCOM 803	Data Analyst	2(1+0+1)						
		Faculty of Humanities							
I	SHBA 301	Pursuing Happiness	2(1+0+1)						
II	SHBA302	Communication Skill and Personality Development	2(1+0+1)						
III	SHMA301	Tourism in M.P	2(1+0+1)						
		Faculty of Science							
I	SSBI 301	Mushroom Cultivation	2(1+0+1)						
II	SSPH 301	House Hold Wiring	2(1+0+1)						
III	SSPH 301	Basic Instrumentation	2(1+0+1)						
IV	SSPH 301	DTP Operator	2(1+0+1)						
V	SSCH 301	Graphic Designing	2(1+0+1)						
	Faculty of Education								
I	SCBE 403	Understanding of ICTC (Information Communication Technology)	2(1+0+1)						
II	SCPE 201	Yoga Education	2(1+0+1)						