

MASTER OF SCIENCE (ZOOLOGY)

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

COURSE STRUCTURE M.SC ZOOLOGY SEMESTER 1st

Course Details				External Assessment		Internal Assessment				Credit Distribution			Allotted Credits
Course Code	Course Type	Course Title	Total Marks	Major		Minor		Sessional ***		L	T	P	Subject wise Distribution
				Max Marks	Min Marks	Max Marks	Min Marks	Max Marks	Min Marks				
Theory Group													
6SMZO101	Core Course	Biosystematics, Taxonomy and Evolution	100	50	17	20	08	30	12	4	-	-	4
6SMZO 102	Core Course	Structure and function of Invertebrates	100	50	17	20	08	30	12	4	-	-	4
6SMZO 103	Core Course	Quantitative biology, Biodiversity and Wild Life	100	50	17	20	08	30	12	4	-	-	4
6SMZO 104	Core Course	Bimolecular and Structural Biology	100	50	17	20	08	30	12	4	-	-	4
Practical Group				Term End Practical Exam		Lab Performance		Sessional					
6SMZO 105	Practical	LAB 1	50	25	08	-	-	25	08	-	-	2	2
6SMZO 106	Practical	LAB 2	50	25	08	-	-	25	08	-	-	2	2
Grand Total			500							16	-	4	20

Minimum Passing Marks are equivalent to Grade D

L- Lectures T- Tutorials P- Practical

Major- Term End Theory / Practical Exam

Minor- Pre University Test

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

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COURSE STRUCTURE M.SC ZOOLOGY SEMESTER IInd

Course Details				External Assessment		Internal Assessment				Credit Distribution			Allotted Credits
Course Code	Course Type	Course Title	Total Marks	Major		Minor		Sessional ***	L	T	P	Subject wise Distribution	
				Max Marks	Min Marks	Max Marks	Min Marks	Max Marks					Min Marks
Theory Group													
6SMZO 201	Core Course	General and Comparative animal physiology and Endocrinology	100	50	17	20	08	30	12	4	-	-	4
6SMZO 202	Core Course	Population Ecology and Environmental physiology	100	50	17	20	08	30	12	4	-	-	4
6SMZO 203	Core Course	Tools and Techniques for Biology	100	50	17	20	08	30	12	4	-	-	4
6SMZO 204	Core Course	Molecular cell biology and Genetics	100	50	17	20	08	30	12	4	-	-	4
Practical Group				Term End Practical Exam		Lab Performance		Sessional					
6SMZO 205	Practical	LAB 1	50	25	08	-	-	25	08	-	-	2	2
6SMZO 206	Practical	LAB 2	50	25	08	-	-	25	08	-	-	2	2
Skill Courses								Sessional					
	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

L- Lectures T- Tutorials P- Practical

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.

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COURSE STRUCTURE M.SC ZOOLOGY SEMESTER IIIrd

Course Details				External Assessment		Internal Assessment				Credit Distribution			Allocated Credits
Course Code	Course Type	Course Title	Total Marks	Major		Minor		Sessional ***		L	T	P	Subject wise Distribution
				Max Marks	Min Marks	Max Marks	Min Marks	Max Marks	Min Marks				
Theory Group													
6SMZO 301	Core Course	Comparative Anatomy of Vertebrates	100	50	17	20	08	30	12	4	-	-	4
6SMZO 302	Core Course	Limnology	100	50	17	20	08	30	12	4	-	-	4
****	Discipline Specific Elective	Elective -I (Select any one below given)	100	50	17	20	08	30	12	4	-	-	4
****	Discipline Specific Elective	Elective -II (Select any one below given)	100	50	17	20	08	30	12	4	-	-	4
Practical Group				Term End Practical Exam		Lab Performance		Sessional					
6SMZO305	Practical	LAB 1	50	25	08	-	-	25	08	-	-	2	2
6SMZO306	Practical	LAB 2	50	25	08	-	-	25	08	-	-	2	2
Skill Courses								Sessional					
	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

L- Lectures T- Tutorials P- Practical

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.

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COURSE STRUCTURE M.SC ZOOLOGY SEMESTER IVth

Course Details				External Assessment		Internal Assessment				Credit Distribution			Allotted Credits
Course Code	Course Type	Course Title	Total Marks	Major		Minor		Sessional ***		L	T	P	Subject wise Distribution
				Max Marks	Min Marks	Max Marks	Min Marks	Max Marks	Min Marks				
Theory Group													
****	Discipline Specific Elective	Elective -III (Select any one below given)	100	50	17	20	08	30	12	4	-	-	4
****	Discipline Specific Elective	Elective -IV (Select any one below given)	100	50	17	20	08	30	12	4	-	-	4
Practical Group				Term End Practical Exam		Lab Performance		Sessional					
6SMZO405	Practical	LAB-I	50	25	08	-	-	25	08	-	-	2	2
6SMZO406	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

L- Lectures T- Tutorials P- Practical

Major- Term End Theory / Practical Exam

Minor- Pre University Test

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

Compulsory Project/Dissertation with choice in any Disciplinary specific elective. Compulsory one paper presentation certificate in related discipline.

PROJECT

All the candidates of M.Sc. (Zoology) 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 w

SPECILIZATION WITH ELECTIVE

***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 ELECTIVE -I Name – Zoology			GROUP ELECTIVE -III Name –Zoology		
6SMZO303	Discipline Specific Elective-1	Ecotoxicology	6SMZO401	Discipline Specific Elective-3	Fish Structure and Function
6SMZO304	Discipline Specific Elective-1	Animal Behavior and Neurophysiology	6SMZO402	Discipline Specific Elective-3	Wild Life Conservation
6SMZO305	Discipline Specific Elective-1	Animal Experimentation Ethics & Testing	6SMZO403	Discipline Specific Elective-3	Entomology
GROUP ELECTIVE -II NAME: Zoology			GROUP ELECTIVE -I V Name – Zoology		
6SMZO306	Discipline Specific Elective-2	Aquaculture	6SMZO404	Discipline Specific Elective-4	Pisci Culture and Economic Importance of Fishes
6SMZO307	Discipline Specific Elective-2	Gamete Biology Development and Differentiation in Vertebrates	6SMZO405	Discipline Specific Elective-4	Environment & Biodiversity Conservation
6SMZO308	Discipline Specific Elective-2	IPR and GLP	6SMZO406	Discipline Specific Elective-4	Applied Entomology

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)