

Tribhuvan University
Institute of Science and Technology
Central Department of Zoology

Semester System for Master's Degree in Zoology

(Note: This course is designed for only two/three years. After that it needs revision.)

Duration of the Program: Four semesters completed in two academic years.

Working days: 90 days per semester.

Total Credits: 60; Full Marks: 1500.

Medium of Instruction: English

Class hour:

Theory: One credit is equivalent to 15 teaching hours and of 25 marks. One hour of lecture per week is equivalent to 1 credit hour.

Practical: One credit is equal to 60 practical hours in a semester. One practical paper of 1 credit will have 4 hours of practical per week. One credit is equivalent to 25 marks.

Attendance: 75% attendance in the class is compulsory.

Evaluation:

1. Students must obtain pass marks in all theory, practical and dissertation separately.
2. There will be an internal examination in each semester carrying a weightage of 40% of the total marks. Appearing in and passing the internal examination is mandatory to take the final examination.
3. The pass marks of theory and practical separately is 50%.
4. IoST will conduct final semester examinations, while the internal examinations will be conducted by the department.
5. The duration of examinations is of one hour for one credit of theory subject and three hours for one credit of practical.

Course Distribution

Semester 1: Compulsory courses

Course No.	Course Title	Nature of course	Credits	Full Marks
Zoo 501	Taxonomy and Lower Non- Chordates	T	3	75
Zoo 502	Higher Non- Chordates and Lower Chordates	T	3	75
Zoo 503	Higher Chordates	T	3	75
Zoo 504	Comparative Anatomy and Physiology	T	3	75
Zoo 505	Practical on Zoo 501 & 502	P	2	50
Zoo 506	Practical on Zoo 503 & 504	P	2	50
Total			16	400

Semester 2: Compulsory courses

Course No.	Course Title	Nature of course	Credits	Full Marks
Zoo 551	Embryology, Ethology & Evolution	T	3	75
Zoo 552	Ecology & Natural Resources	T	3	75
Zoo 553	Research Methodology I & Biostatistics	T	3	75
Zoo 554	Genetics, Cell and Molecular Biology	T	3	75
Zoo 555	Practical on Zoo 551 & 552	P	2	50
Zoo 556	Practical on Zoo 553 & 554	P	2	50
Total			16	400

Semester 3 & 4: Specialization (Any one)

1. Ecology

Semester 3

Course No.	Course Title	Nature of course	Credit hrs	Full Marks
Eco 601	Ecological Theories and Principles	T	4	100
Eco 602	Quantitative & Spatial Ecology	T	4	100
Eco 603	Conservation Biology	T	4	100
Eco 604	Ecosystem Management & Research Methodology II	T	4	100
Eco 605	Quantitative & Spatial Ecology	P	2	50
Eco 606	Conservation Biology & Ecosystem Management	P	2	50
Eco 607	Dissertation Proposal & Seminar		1	25
Total			21	525

Semester 4

Eco 651	Mountain and Global Ecology	T	3	75
Eco 652	Thesis		4	100
Total			11	175

2. Entomology

Semester 3

Course No.	Course Title	Nature of course	Credits	Full Marks
Ent 608	General Entomology	T	4	100
Ent 609	Taxonomy & Insect Pests	T	4	100
Ent 610	Pest Management	T	4	100
Ent 611	Medical & Industrial Entomology, & Research Methodology II	T	4	100
Ent 612	Taxonomy & Insect Pests	P	2	50
Ent 613	Pest Management, Medical & Industrial Entomology	P	2	50
Ent 614	Dissertation Proposal & Seminar		1	25
Total			21	525

Semester 4

Ent 653	Insect Ecology & Behaviour	T	3	75
Ent 654	Thesis		8	100
Total			11	175

3. Fish & Fisheries

Semester 3

Course No.	Course Title	Nature of course	Credits	Full Marks
Fis 615	Taxonomy & Molecular Genetics	T	4	100
Fis 616	Adaptation, Anatomy and Physiology	T	4	100
Fis 617	Aquaculture and Fish Breeding	T	4	100
Fis 618	Freshwater Ecology & Research Methodology II	T	4	100
Fis 619	Taxonomy, Anatomy and Adaptation	P	2	50
Fis 620	Aquaculture, Fish Breeding & Freshwater Ecology	P	2	50
Fis 621	Dissertation Proposal & Seminar		1	25
Total			21	525

Semester 4

Fis 655	Fisheries Management	T	3	75
Fis 656	Thesis		8	100
Total			11	175

4. Parasitology

Semester 3

Course No.	Course Title	Nature of course	Credits	Full Marks
Par 622	General and Molecular Parasitology	T	4	100
Par 623	Protozoology, Zoonoses & Entomology	T	4	100
Par 624	Environment, Health & Immunization	T	4	100
Par 625	Helminthology & Research Methodology II	T	4	100
Par 626	Protozoology, Zoonoses & Entomology	P	2	50
Par 627	Helminthology & Molecular Parasitology	P	2	50
Par 628	Dissertation Proposal & Seminar		1	25
Total			21	525

Semester 4

Par 657	Epidemiology & Pharmacology	T	3	75
Par 658	Thesis		8	100
Total			11	175