अटल बिहारी वाजपेयी विश्वविद्यालय बिलासपुर

(छत्तीसगढ़)

सेमेस्टर पाठ्यक्रम

M.Sc. ZOOLOGY

M.Sc. Semester III

Zoology Practical

Lab-course I

(Comparative Anatomy)

1. Dissection of animals :- Amphioxus, Scoliodon, Electric ray, Sting ray, Calotis, Bird head, Rat (Subject to availability of material) / study through alternative methods of dissection.

2. Micro preparation of suitable and available material.

3. Study of the representative examples of different classes of Chordates.

4. Study of permanent slides showing whole mount or section as per Theory syllabus, including embryological slides of Frog and Chick.

5. Osteology of Amphibia, Reptile, Bird, Mammal.

6. Study of animal diversity by field trip and excursion, Extension activity to spread health awareness. Students have to submit project report.

Biosystematics, taxonomy & Biodiversity

1. Study of biodiversity among various invertebrates and vertebrates (Listing of all the animals found in and around your house and also try to find out their Zoological names)

2. Collection of various insect species

3. Visits to a local animal park or zoo to identify and study the captive fauna and preparation of report

4. Study of adaptive characteristics of various invertebrates and vertebrates in different climate

5. Taxonomic key formation and conversion

6. Study of biodiversity in grassland and pond water by using Shannon - Weiner index .

M.Sc. Semester III

Zoology Practical

Lab-course I **Hours**

Time-06

Max. Marks-100

Distribution of marks in practical exam

1. Dissection of Vertebrate (virtual/other method) (10)
2. Spotting 1 to 10 (20)
3. Micro preparation (10)

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Exercise based on ECG/EEG	(10)
4. Viva	(10)
5. Sessional	(20)

Total = 100

BILASPUR UNIVERSITY, BILASPUR

M.Sc. Semester IV

Zoology Practical
Lab-course II

Practical (Special Paper Fishes)

1. Anatomy of different systems of Fresh water Fishes through dissections
2. Osteology of Fishes
3. Microscopic Preparation
4. Taxonomic study of Fishes through Museum specimen and collection
5. Identification of Fresh water Fishes of Chhattisgarh up to species level
6. Field work/ Industry visit and preparation of Record

M.Sc. Semester IV

Zoology Practical

Lab-course II
Time-06 Hours
Max. Marks-100

Distribution of marks in practical exam.

1. Dissection of fresh water fish /Virtual		(10)
2. Spotting (1 to 10)	(20)	
3. Slide preparation	(10)	
4. Identification of fresh water fishes		(20)
5. Project Report and field visit		(10)
6. Viva	(10)	
7. Sessional	(20)	

Total = 100

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SEMESTER-I
LAB-COURSE I

Time-06 Hours
Max. Marks-100

Invertebrates
1. Study of non-chordates through museum specimen
2. Study of permanent slides of non-chordates
3. Dissection of representative types (invertebrates)
4. Squilla, Mytilus, Sepia, Aplysia, Echinus

5. Mounting-
Permanent and suitable stained micro-preparation
Earthworm-nerve ring, ovary, spermathecal, nephridia
Cockroach-mouth parts , salivary glands, trachea
Prawn appendages, statocyst
Protozoan- rhizopods, flagellates and ciliates (fresh water forms) prolozoon ulase
Porifera-spicule sand gemmules of fresh water sponges
Crustaceans and rotifers
Larval forms of the free living invertebrates

Animal behaviour-
6. Experiments related to Animal Behaviour

Feeding behaviour in house fly
Life cycle of Lac insect and honey bee (chart/model/material)
Study of structural organization of the bee hive
Learning behaviour-
Conditioned and unconditioned reflex

7. Projects-
a)Visit to study the management of following->
Fish farm, dairy farm, poultry farm, sericulture and apiculture
b) Study of invertebrate local fauna
c) Any other relevant topic

Student should prepare a report and submit

Note-
1. Use of animal for dissection and practical work is subject to the conditions that they are not banned under the wildlife protection act
2. External features and anatomy should be studied by digital techniques and the alternatives. Wherever live animals is studies it should be either pest or colourable species without painting them

Department of Zoology, Govt TCL PG College Janjgir

Project

M.Sc. First Semester (Session 2020-21)

S.N.	Name	Father's Name	Project Topic
1.	Aafrin	Salim Khan	Pisciculture
2.	Amisha	Rakesh rathore	Pisciculture
3.	Anita	Mahipal Singh	Pisciculture
4.	Arti	Amar Singh	Pisciculture
5.	Ashok	Prem Lal	Pisciculture
6.	Deeparani	Chandra Prakash	Apiculture
7.	Deepika	Naresh Tekam	Apiculture
8.	Divya	Mohan lal	Apiculture
9.	Harman	Basant singh	Apiculture
10.	Hina	Yad Ram	Apiculture
11.	Jayanti	Ramund singh	Study of invertebrates diversity in college
12.	Jitendra	Jaliram sahu	Study of invertebrates diversity in college
13.	Kirti	Gend singh	Study of invertebrates diversity in college
14.	Kusumlata	Shanti lal	Study of invertebrates diversity in college
15.	Lokesh	Surrend singh	Study of invertebrates diversity in college
16.	Mamta	Motilal patel	Dairy forming
17.	Manisha	Ramgopal	Dairy forming
18.	Mushkan	Sanjay dubey	Dairy forming
19.	Nisha	Jaibhara	Dairy forming
20.	Pranjali	Prabhat Sharma	Dairy forming
21.	Rajeet	Ramkrishna	sericulture
22.	Rajeshwari	Ram singh	sericulture
23.	Rima	Bishram	sericulture
24.	Roshni	Ramkumar rathore	sericulture
25.	Sangeeta	Sukhsagar	Poultry forming
26.	Sapna	Kanai gucenhait	Poultry forming
27.	Saraswati	Shiv kumar	Poultry forming
28.	Shraddha	Deeplal yadav	Poultry forming

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