

ZOOLOGY DEPARTMENT

PROJECT REPORT B.Sc-2nd semester

SESSION 2024-2025

NAME OF THE PROJECT : Project report on Vertebrate Fauna of College campus.

OBJECTIVE : To explore the animals at college campus especially Vertebrates.

No. OF STUDENTS PARTICIPATED : 86

METHODOLOGY:

Students and the teacher in charge went to the college campus to investigate various animals and learn about their defensive, feeding, and nest-building behaviors.

When monitoring animals in open spaces, it performs admirably. Additionally, websites, books, and photos were used to help with identification. The campus's abundance of gardens, fields, and medicinal gardens is the main factor contributing to its great faunal diversity.

KEY OUTCOMES OF THE PROJECT :

Students examined the diversity of wildlife, particularly the behavior of vertebrates.

This study makes recommendations for how to protect natural habitats and monitor human activity to make sure the policies are suitable for allowing all animals to live in harmony with their natural surroundings.

Written project files have been submitted by students to the Departmental Library.

1.) (Dr. Madhvi Vashishtha)

2.) (Dr. Fahimda Veng)

Teacher Incharge

Kampla

Head of the Dept.

Principal
Govt College for Girls
LUDHIANA

PROJECT REPORT DATA (2024-2025)**CLASS- B.Sc - 2nd sem (Medical)****Teacher Incharges- Dr. Madhvi Vashisth & Dr. Falwinder Verma****Deptt. Of Zoology, Govt. College for Girls, Ludhiana**

Sr.No	Roll No	Student Name	Project Name	Duration	Dates
1	2	AALINEE KUMARI	PROJECT REPORT ON VERTEBRATE FAUNA OF COLLEGE CAMPUS	Three Months	Jan to March 2025
2	3	ADITI	PROJECT REPORT ON VERTEBRATE FAUNA OF COLLEGE CAMPUS	Three Months	Jan to March 2025
3	4	AKSHITA BAGGA	PROJECT REPORT ON VERTEBRATE FAUNA OF COLLEGE CAMPUS	Three Months	Jan to March 2025
4	5	AMANDEEP KAUR	PROJECT REPORT ON VERTEBRATE FAUNA OF COLLEGE CAMPUS	Three Months	Jan to March 2025
5	6	AMANPREET KAUR	PROJECT REPORT ON VERTEBRATE FAUNA OF COLLEGE CAMPUS	Three Months	Jan to March 2025
6	7	AMISHA	PROJECT REPORT ON VERTEBRATE FAUNA OF COLLEGE CAMPUS	Three Months	Jan to March 2025
7	10	ANJALI SAINI	PROJECT REPORT ON VERTEBRATE FAUNA OF COLLEGE CAMPUS	Three Months	Jan to March 2025
8	11	ANJALI TIWARI	PROJECT REPORT ON VERTEBRATE FAUNA OF COLLEGE CAMPUS	Three Months	Jan to March 2025
9	12	ANKITA LATH	PROJECT REPORT ON VERTEBRATE FAUNA OF COLLEGE CAMPUS	Three Months	Jan to March 2025
10	14	ARASHPREET KAUR	PROJECT REPORT ON VERTEBRATE FAUNA OF COLLEGE CAMPUS	Three Months	Jan to March 2025
11	15	ARSHPREET KAUR	PROJECT REPORT ON VERTEBRATE FAUNA OF COLLEGE CAMPUS	Three Months	Jan to March 2025
12	16	AVREET KAUR	PROJECT REPORT ON VERTEBRATE FAUNA OF COLLEGE CAMPUS	Three Months	Jan to March 2025
13	17	BHUMI JAIN	PROJECT REPORT ON VERTEBRATE FAUNA OF COLLEGE CAMPUS	Three Months	Jan to March 2025
14	18	BHUMIKA SINGH	PROJECT REPORT ON VERTEBRATE FAUNA OF COLLEGE CAMPUS	Three Months	Jan to March 2025
15	19	CHAHAT	PROJECT REPORT ON VERTEBRATE FAUNA OF COLLEGE CAMPUS	Three Months	Jan to March 2025
16	20	DAMANPREET KAUR LA	PROJECT REPORT ON VERTEBRATE FAUNA OF COLLEGE CAMPUS	Three Months	Jan to March 2025
17	23	DEEPIKA	PROJECT REPORT ON VERTEBRATE FAUNA OF COLLEGE CAMPUS	Three Months	Jan to March 2025
18	24	DIKSHA CHAUDHARY	PROJECT REPORT ON VERTEBRATE FAUNA OF COLLEGE CAMPUS	Three Months	Jan to March 2025
19	26	DISHA SETHI	PROJECT REPORT ON VERTEBRATE FAUNA OF COLLEGE CAMPUS	Three Months	Jan to March 2025
20	28	DIYA	PROJECT REPORT ON VERTEBRATE FAUNA OF COLLEGE CAMPUS	Three Months	Jan to March 2025
21	30	FURNEESH KAUR	PROJECT REPORT ON VERTEBRATE FAUNA OF COLLEGE CAMPUS	Three Months	Jan to March 2025
22	31	GAGANDEEP KAUR	PROJECT REPORT ON VERTEBRATE FAUNA OF COLLEGE CAMPUS	Three Months	Jan to March 2025
23	32	GRISHA MUKHIJA	PROJECT REPORT ON VERTEBRATE FAUNA OF COLLEGE CAMPUS	Three Months	Jan to March 2025
24	33	GURLEEN KAUR	PROJECT REPORT ON VERTEBRATE FAUNA OF COLLEGE CAMPUS	Three Months	Jan to March 2025
25	34	GURLEEN KAUR	PROJECT REPORT ON VERTEBRATE FAUNA OF COLLEGE CAMPUS	Three Months	Jan to March 2025
26	35	GURLEEN KAUR	PROJECT REPORT ON VERTEBRATE FAUNA OF COLLEGE CAMPUS	Three Months	Jan to March 2025
27	36	GURNEET KAUR	PROJECT REPORT ON VERTEBRATE FAUNA OF COLLEGE CAMPUS	Three Months	Jan to March 2025
28	37	HARIJOT KAUR	PROJECT REPORT ON VERTEBRATE FAUNA OF COLLEGE CAMPUS	Three Months	Jan to March 2025
29	38	HARKAMALJEET KAUR	PROJECT REPORT ON VERTEBRATE FAUNA OF COLLEGE CAMPUS	Three Months	Jan to March 2025
30	39	HARMANDEEP	PROJECT REPORT ON VERTEBRATE FAUNA OF COLLEGE CAMPUS	Three Months	Jan to March 2025
31	40	HARSIMAR KAUR	PROJECT REPORT ON VERTEBRATE FAUNA OF COLLEGE CAMPUS	Three Months	Jan to March 2025
32	43	JANVI SRIWASTAV	PROJECT REPORT ON VERTEBRATE FAUNA OF COLLEGE CAMPUS	Three Months	Jan to March 2025
33	44	JASKARAN KAUR	PROJECT REPORT ON VERTEBRATE FAUNA OF COLLEGE CAMPUS	Three Months	Jan to March 2025
34	45	JASLEEN KAUR	PROJECT REPORT ON VERTEBRATE FAUNA OF COLLEGE CAMPUS	Three Months	Jan to March 2025
35	46	JASMEEN KAUR	PROJECT REPORT ON VERTEBRATE FAUNA OF COLLEGE CAMPUS	Three Months	Jan to March 2025
36	47	JASPREET KAUR	PROJECT REPORT ON VERTEBRATE FAUNA OF COLLEGE CAMPUS	Three Months	Jan to March 2025
37	49	JASPREET KAUR	PROJECT REPORT ON VERTEBRATE FAUNA OF COLLEGE CAMPUS	Three Months	Jan to March 2025
38	50	JASPREET KAUR	PROJECT REPORT ON VERTEBRATE FAUNA OF COLLEGE CAMPUS	Three Months	Jan to March 2025
39	51	KAJAL SHARMA	PROJECT REPORT ON VERTEBRATE FAUNA OF COLLEGE CAMPUS	Three Months	Jan to March 2025
40	54	KAWALIIT KAUR	PROJECT REPORT ON VERTEBRATE FAUNA OF COLLEGE CAMPUS	Three Months	Jan to March 2025
41	55	KHUSBU KUMARI	PROJECT REPORT ON VERTEBRATE FAUNA OF COLLEGE CAMPUS	Three Months	Jan to March 2025
42	56	KHUSHI	PROJECT REPORT ON VERTEBRATE FAUNA OF COLLEGE CAMPUS	Three Months	Jan to March 2025
43	57	KHUSHI RANI	PROJECT REPORT ON VERTEBRATE FAUNA OF COLLEGE CAMPUS	Three Months	Jan to March 2025

51	61	KHUSHPREET KAUR	PROJECT REPORT ON VERTEBRATE FAUNA OF COLLEGE CAMPUS	Three Months	Jan to March 2025
52	62	KIRANINDER KAUR	PROJECT REPORT ON VERTEBRATE FAUNA OF COLLEGE CAMPUS	Three Months	Jan to March 2025
53	63	KOMALPREET KAUR	PROJECT REPORT ON VERTEBRATE FAUNA OF COLLEGE CAMPUS	Three Months	Jan to March 2025
54	64	MANISHA RANI	PROJECT REPORT ON VERTEBRATE FAUNA OF COLLEGE CAMPUS	Three Months	Jan to March 2025
55	65	MEHIK	PROJECT REPORT ON VERTEBRATE FAUNA OF COLLEGE CAMPUS	Three Months	Jan to March 2025
56	66	MINAKSHI DEVI	PROJECT REPORT ON VERTEBRATE FAUNA OF COLLEGE CAMPUS	Three Months	Jan to March 2025
57	67	NIKITA KUMARI	PROJECT REPORT ON VERTEBRATE FAUNA OF COLLEGE CAMPUS	Three Months	Jan to March 2025
58	68	PALAK VERMA	PROJECT REPORT ON VERTEBRATE FAUNA OF COLLEGE CAMPUS	Three Months	Jan to March 2025
59	69	PALVI DEVI	PROJECT REPORT ON VERTEBRATE FAUNA OF COLLEGE CAMPUS	Three Months	Jan to March 2025
60	70	PARNEET KAUR	PROJECT REPORT ON VERTEBRATE FAUNA OF COLLEGE CAMPUS	Three Months	Jan to March 2025
61	71	PRANCI SHARMA	PROJECT REPORT ON VERTEBRATE FAUNA OF COLLEGE CAMPUS	Three Months	Jan to March 2025
62	72	PREET ANMOL	PROJECT REPORT ON VERTEBRATE FAUNA OF COLLEGE CAMPUS	Three Months	Jan to March 2025
63	73	PRIYA	PROJECT REPORT ON VERTEBRATE FAUNA OF COLLEGE CAMPUS	Three Months	Jan to March 2025
64	74	RAMANDEEP KAUR	PROJECT REPORT ON VERTEBRATE FAUNA OF COLLEGE CAMPUS	Three Months	Jan to March 2025
65	75	RAMANPREET KAUR	PROJECT REPORT ON VERTEBRATE FAUNA OF COLLEGE CAMPUS	Three Months	Jan to March 2025
66	76	RIYA DUBEY	PROJECT REPORT ON VERTEBRATE FAUNA OF COLLEGE CAMPUS	Three Months	Jan to March 2025
67	77	ROSHNI	PROJECT REPORT ON VERTEBRATE FAUNA OF COLLEGE CAMPUS	Three Months	Jan to March 2025
68	78	RUCHI MISHRA	PROJECT REPORT ON VERTEBRATE FAUNA OF COLLEGE CAMPUS	Three Months	Jan to March 2025
69	79	SADHNA	PROJECT REPORT ON VERTEBRATE FAUNA OF COLLEGE CAMPUS	Three Months	Jan to March 2025
70	80	SALONI	PROJECT REPORT ON VERTEBRATE FAUNA OF COLLEGE CAMPUS	Three Months	Jan to March 2025
71	81	SANGAM	PROJECT REPORT ON VERTEBRATE FAUNA OF COLLEGE CAMPUS	Three Months	Jan to March 2025
72	82	SANIA JAHAN	PROJECT REPORT ON VERTEBRATE FAUNA OF COLLEGE CAMPUS	Three Months	Jan to March 2025
73	83	SHUBHDEEP KAUR	PROJECT REPORT ON VERTEBRATE FAUNA OF COLLEGE CAMPUS	Three Months	Jan to March 2025
74	84	SIMRAN KAUR	PROJECT REPORT ON VERTEBRATE FAUNA OF COLLEGE CAMPUS	Three Months	Jan to March 2025
75	85	SIMRANJEET KAUR	PROJECT REPORT ON VERTEBRATE FAUNA OF COLLEGE CAMPUS	Three Months	Jan to March 2025
76	86	SIMRANPREET KAUR	PROJECT REPORT ON VERTEBRATE FAUNA OF COLLEGE CAMPUS	Three Months	Jan to March 2025
77	87	SUBHITAM	PROJECT REPORT ON VERTEBRATE FAUNA OF COLLEGE CAMPUS	Three Months	Jan to March 2025
78	88	SUKHMANDEEP KAUR	PROJECT REPORT ON VERTEBRATE FAUNA OF COLLEGE CAMPUS	Three Months	Jan to March 2025
79	89	TARANU KHATUN	PROJECT REPORT ON VERTEBRATE FAUNA OF COLLEGE CAMPUS	Three Months	Jan to March 2025
80	90	TARANVEER KAUR	PROJECT REPORT ON VERTEBRATE FAUNA OF COLLEGE CAMPUS	Three Months	Jan to March 2025
81	91	TARUNAM	PROJECT REPORT ON VERTEBRATE FAUNA OF COLLEGE CAMPUS	Three Months	Jan to March 2025
82	92	TULSI	PROJECT REPORT ON VERTEBRATE FAUNA OF COLLEGE CAMPUS	Three Months	Jan to March 2025
83	93	VANSHIKA	PROJECT REPORT ON VERTEBRATE FAUNA OF COLLEGE CAMPUS	Three Months	Jan to March 2025
84	94	KHUSHI BHALLA	PROJECT REPORT ON VERTEBRATE FAUNA OF COLLEGE CAMPUS	Three Months	Jan to March 2025
85	95	SANJANA DEVI	PROJECT REPORT ON VERTEBRATE FAUNA OF COLLEGE CAMPUS	Three Months	Jan to March 2025
86	96	TIYA	PROJECT REPORT ON VERTEBRATE FAUNA OF COLLEGE CAMPUS	Three Months	Jan to March 2025
87	97	HARPREET KAUR	PROJECT REPORT ON VERTEBRATE FAUNA OF COLLEGE CAMPUS	Three Months	Jan to March 2025
88	98	PAWANPREET KAUR	PROJECT REPORT ON VERTEBRATE FAUNA OF COLLEGE CAMPUS	Three Months	Jan to March 2025
89	99	JASHANPREET KAUR	PROJECT REPORT ON VERTEBRATE FAUNA OF COLLEGE CAMPUS	Three Months	Jan to March 2025
90	100	GULNAJ KHATUN	PROJECT REPORT ON VERTEBRATE FAUNA OF COLLEGE CAMPUS	Three Months	Jan to March 2025
91	101	ROSHNI	PROJECT REPORT ON VERTEBRATE FAUNA OF COLLEGE CAMPUS	Three Months	Jan to March 2025
92	102	JIYA WALIA	PROJECT REPORT ON VERTEBRATE FAUNA OF COLLEGE CAMPUS	Three Months	Jan to March 2025
93	103	HIM MALIKA RANI	PROJECT REPORT ON VERTEBRATE FAUNA OF COLLEGE CAMPUS	Three Months	Jan to March 2025

1) (Dr. Madhu Vashishth)
 2) (Dr. Falguni Verma)

SEMESTER- II

SUBJECT-A

Course Code: _____

Course Title: Diversity of Chordates

Total Hours= 75 (Theory= 45 + Practical= 30)

Credits= 4 (L=3 + T=0 + P=1)

Total Marks= 100 (Theory= 75 + Practical=25)

Internal Assessment=20%

Theory

Course Outcomes:

- Students will be able to develop an appreciation for the biodiversity of chordates.
- Students will acquire knowledge about origin, taxonomic classification, structure and functions of chordates.
- Students will understand the basic characters, advancements and adaptations of different types of vertebrates.
- Students will be able to apply their knowledge towards identification of different species of chordates in their surroundings.

UNIT- 1

Introduction to Chordates

General characteristics and outline classification

Protochordata

General characteristics of Hemichordata, Urochordata, Cephalochordata and classification upto classes; *Balanoglossus*, *Herdmania* & *Amphioxus*.

Study of the larva and retrogressive metamorphosis in *Herdmania*.

UNIT- 2

Agnatha

General characteristics and classification of cyclostomes up to classes; *Petromyzon* & *Myxine*.

Pisces

General characteristics of Chondrichthyes and Osteichthyes, classification up to classes; *Scoliodon*, *Sphyrna*, *Pristis*, *Torpedo*, *Chimaera*, *Mystus*, *Heteropneustes*, *Labeo*, *Exocoetus*, *Echeneis*, *Anguilla*, *Hippocampus*, *Tetraodon*, *Diodon*, *Anabas* & *Solea*.

Migration, Osmoregulation and Parental care in fishes. Fish scales.

Amphibia

General characteristics and classification up to classes; *Ichthyophis*, *Ureotyphlus*, *Necturus*, *Bufo*, *Hyla*, *Alytes* & *Salamandra*.

Parental care in amphibians. Neoteny and Paedogenesis.

UNIT- 3

Reptilia

General characteristics and classification up to classes; *Chelone*, *Trionyx*, *Hemidactylus*, *Varanus*, *Uromastix*, *Chamaeleon*, *Ophisaurus*, *Draco*, *Bungarus*, *Vipera*, *Naja*, *Hydrophis* & *Crocodylus*.

Poison apparatus and biting mechanism in snakes. Identification of poisonous and non poisonous snakes.

(iv)

General characteristics and classification up to classes; *Ardea, Milvus, Pavo, Tyto, Alcedo, Eudynamis & Casuarius*.

Archaeopteryx- a connecting link; Principles and aerodynamics of flight, Flight adaptations and Migration in birds.

UNIT- 4

Mammalia

General characters and classification up to classes; *Ornithorhynchus, Echidna, Macropus* (Kangaroo), *Loris, Macaca, Manis* (Scaly ant eater), *Hystrix* (porcupine), *Funambulus* (Squirrel), *Canis, Herpestes* (Mongoose), *Capra, Pteropus*.

Adaptive radiation with reference to locomotory appendages, Exoskeleton derivatives and dentition.

_____ : Diversity of Chordates

Practical

1. Protochordata

Study of specimens: *Balanoglossus, Herdmania & Amphioxus*. Larva of *Herdmania* (slide).

2. Agnatha

Study of specimens: *Petromyzon & Myxine*.

3. Pisces

Study of specimens: *Scoliodon, Sphyrna, Pristis, Torpedo, Chimaera, Mystus, Heteropneustes, Labeo, Exocoetus, Echeneis, Anguilla, Hippocampus, Tetraodon, Diodon, Anabas & Solea*.

4. Amphibia

Study of specimens: *Ichthyophis/Ureotyphlus, Necturus, Bufo, Hyla, Alytes & Salamandra*.

5. Reptilia

Study of specimens: *Chelone, Trionyx, Hemidactylus, Varanus, Uromastix, Chamaeleon, Ophisaurus, Draco, Bungarus, Vipera, Naja, Hydrophis & Crocodylus*.

Study of keys for the identification of poisonous and non-poisonous snakes

6. Aves

Study of specimens: *Ardea, Milvus, Pavo, Tyto, Alcedo, Eudynamis & Casuarius*.

7. Mammalia

Study of specimens: *Ornithorhynchus, Echidna, Macropus* (Kangaroo), *Loris, Macaca, Manis* (Scaly ant eater), *Hystrix* (porcupine), *Funambulus* (Squirrel), *Canis, Herpestes* (Mongoose), *Capra & Pteropus*.

8. Educational trip/ Project work.

