

ZOOLOGY DEPARTMENT

PROJECT REPORT B.Sc-2nd year

SESSION 2024-2025

NAME OF THE PROJECT : 1. Project report on Vertebrate Fauna of College campus.

2. . Project report on Fossils study.

OBJECTIVE : To explore the animals at campus especially Vertebrates.

No. OF STUDENTS PARTICIPATED : 62

METHODOLOGY:

Students visited the college campus with the instructor in charge to investigate various animals and learn about their defensive, eating, and nestbuilding behaviors. In wide spaces, it is an excellent tool for viewing wildlife. Information from books, websites, and photos was also used to help with identification.

The campus's many gardens, meadows, and medicinal gardens are the main causes of its high faunal variety.

KEY OUTCOMES OF THE PROJECT :

The diversity of fauna, particularly the behavior of vertebrates, was noticed by the students. In order to guarantee that the acts taken by humans are suitable for the natural flourishing of all creatures, this research makes recommendations on how to protect natural ecosystems.

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

1.) *Kampta*
(*Ms. Kiana Gupta*)

2.) *[Signature]*
(*Dr. FALWINDER VERMA*)

Teacher Incharge

Kampta
Head of the Dept.

[Signature]
Principal **Principal.**
Govt. College for Girls
LUDHIANA

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

Sr.No	Roll No	Student Name	Project Name	Duration	Dates
1	201	AANCHAL	PROJECT REPORT ON VERTEBRATE FAUNA OF COLLEGE CAMPUS	Three Months	Jan to March 2025
2	202	ADITI RANI	PROJECT REPORT ON FOSSILS STUDY	Three Months	Jan to March 2025
3	203	ADITIANAND	PROJECT REPORT ON VERTEBRATE FAUNA OF COLLEGE CAMPUS	Three Months	Jan to March 2025
4	204	ANMOLDEEP KAUR	PROJECT REPORT ON FOSSILS STUDY	Three Months	Jan to March 2025
5	205	ANURADHA KUMARI	PROJECT REPORT ON VERTEBRATE FAUNA OF COLLEGE CAMPUS	Three Months	Jan to March 2025
6	206	ANUSHKA SANDHU	PROJECT REPORT ON FOSSILS STUDY	Three Months	Jan to March 2025
7	207	ARSHDEEP KAUR	PROJECT REPORT ON VERTEBRATE FAUNA OF COLLEGE CAMPUS	Three Months	Jan to March 2025
8	208	ASMI SOOD	PROJECT REPORT ON FOSSILS STUDY	Three Months	Jan to March 2025
9	209	ASWIN KUJUR	PROJECT REPORT ON VERTEBRATE FAUNA OF COLLEGE CAMPUS	Three Months	Jan to March 2025
10	210	BAINY DAROCH	PROJECT REPORT ON FOSSILS STUDY	Three Months	Jan to March 2025
11	211	CHEENU	PROJECT REPORT ON VERTEBRATE FAUNA OF COLLEGE CAMPUS	Three Months	Jan to March 2025
12	212	CHHAVI BHATIA	PROJECT REPORT ON FOSSILS STUDY	Three Months	Jan to March 2025
13	213	DHANVI SHARMA	PROJECT REPORT ON VERTEBRATE FAUNA OF COLLEGE CAMPUS	Three Months	Jan to March 2025
14	216	HARMADEEP KAUR	PROJECT REPORT ON FOSSILS STUDY	Three Months	Jan to March 2025
15	217	HARPREET KAUR	PROJECT REPORT ON VERTEBRATE FAUNA OF COLLEGE CAMPUS	Three Months	Jan to March 2025
16	218	HARPREET KAUR	PROJECT REPORT ON FOSSILS STUDY	Three Months	Jan to March 2025
17	219	HARSIMRAN KAUR	PROJECT REPORT ON VERTEBRATE FAUNA OF COLLEGE CAMPUS	Three Months	Jan to March 2025
18	220	ISHITA	PROJECT REPORT ON FOSSILS STUDY	Three Months	Jan to March 2025
19	221	JAISLEEN KAUR	PROJECT REPORT ON VERTEBRATE FAUNA OF COLLEGE CAMPUS	Three Months	Jan to March 2025
20	222	JASLEEN KAUR	PROJECT REPORT ON FOSSILS STUDY	Three Months	Jan to March 2025
21	224	KOMALPREET KAUR	PROJECT REPORT ON FOSSILS STUDY	Three Months	Jan to March 2025
22	226	LUXMI	PROJECT REPORT ON FOSSILS STUDY	Three Months	Jan to March 2025
23	227	MANPREET KAUR	PROJECT REPORT ON VERTEBRATE FAUNA OF COLLEGE CAMPUS	Three Months	Jan to March 2025
24	228	MUSKAN	PROJECT REPORT ON FOSSILS STUDY	Three Months	Jan to March 2025
25	229	NAMISHA BAGHARIA	PROJECT REPORT ON VERTEBRATE FAUNA OF COLLEGE CAMPUS	Three Months	Jan to March 2025
26	230	NIHARIKA LALWANI	PROJECT REPORT ON FOSSILS STUDY	Three Months	Jan to March 2025
27	232	PRABHJOT KAUR	PROJECT REPORT ON FOSSILS STUDY	Three Months	Jan to March 2025
28	233	PRABHNEET KAUR	PROJECT REPORT ON VERTEBRATE FAUNA OF COLLEGE CAMPUS	Three Months	Jan to March 2025
29	234	PRIYANKA	PROJECT REPORT ON FOSSILS STUDY	Three Months	Jan to March 2025
30	235	RANJANA	PROJECT REPORT ON VERTEBRATE FAUNA OF COLLEGE CAMPUS	Three Months	Jan to March 2025
31	236	RINKY	PROJECT REPORT ON FOSSILS STUDY	Three Months	Jan to March 2025
32	237	RIYA PAMBRA	PROJECT REPORT ON VERTEBRATE FAUNA OF COLLEGE CAMPUS	Three Months	Jan to March 2025
33	238	ROOPAMSHARMA	PROJECT REPORT ON FOSSILS STUDY	Three Months	Jan to March 2025
34	239	SANJANA	PROJECT REPORT ON VERTEBRATE FAUNA OF COLLEGE CAMPUS	Three Months	Jan to March 2025
35	240	SANJOT KAUR	PROJECT REPORT ON FOSSILS STUDY	Three Months	Jan to March 2025
36	241	SHEELA DEVI	PROJECT REPORT ON VERTEBRATE FAUNA OF COLLEGE CAMPUS	Three Months	Jan to March 2025
37	242	SHIVANI SHARMA	PROJECT REPORT ON FOSSILS STUDY	Three Months	Jan to March 2025
38	243	SIMRAN KAUR	PROJECT REPORT ON VERTEBRATE FAUNA OF COLLEGE CAMPUS	Three Months	Jan to March 2025
39	244	SNEHA	PROJECT REPORT ON FOSSILS STUDY	Three Months	Jan to March 2025
40	246	SUKHMANJYOT KAUR	PROJECT REPORT ON FOSSILS STUDY	Three Months	Jan to March 2025
41	247	SUKHPREET KAUR	PROJECT REPORT ON VERTEBRATE FAUNA OF COLLEGE CAMPUS	Three Months	Jan to March 2025
42	248	TAMANNA	PROJECT REPORT ON FOSSILS STUDY	Three Months	Jan to March 2025
43	249	TANISHA SHARMA	PROJECT REPORT ON VERTEBRATE FAUNA OF COLLEGE CAMPUS	Three Months	Jan to March 2025
44	250	VANITA	PROJECT REPORT ON FOSSILS STUDY	Three Months	Jan to March 2025
45	251	YASHIKA	PROJECT REPORT ON VERTEBRATE FAUNA OF COLLEGE CAMPUS	Three Months	Jan to March 2025
46	252	ANURADHA	PROJECT REPORT ON FOSSILS STUDY	Three Months	Jan to March 2025

253	KOMALDEEP KAUR	PROJECT REPORT ON VERTEBRATE FAUNA OF COLLEGE CAMPUS	Three Months	Jan to March 2025
254	MEHAKPREET KAUR	PROJECT REPORT ON FOSSILS STUDY	Three Months	Jan to March 2025
255	RAJDEEP KAUR	PROJECT REPORT ON FOSSILS STUDY	Three Months	Jan to March 2025
256	AMANDEEP KAUR	PROJECT REPORT ON VERTEBRATE FAUNA OF COLLEGE CAMPUS	Three Months	Jan to March 2025
257	HARLEEN KAUR DEOL	PROJECT REPORT ON FOSSILS STUDY	Three Months	Jan to March 2025
258	KIRANJEET KAUR	PROJECT REPORT ON VERTEBRATE FAUNA OF COLLEGE CAMPUS	Three Months	Jan to March 2025
259	AMANVEER KAUR	PROJECT REPORT ON FOSSILS STUDY	Three Months	Jan to March 2025
260	BIHAVYA	PROJECT REPORT ON VERTEBRATE FAUNA OF COLLEGE CAMPUS	Three Months	Jan to March 2025
261	GURSIMRAN KAUR	PROJECT REPORT ON FOSSILS STUDY	Three Months	Jan to March 2025
262	GURWINDER KAUR	PROJECT REPORT ON FOSSILS STUDY	Three Months	Jan to March 2025
263	SRIJAN	PROJECT REPORT ON VERTEBRATE FAUNA OF COLLEGE CAMPUS	Three Months	Jan to March 2025
264	RAVNEET JAIR	PROJECT REPORT ON FOSSILS STUDY	Three Months	Jan to March 2025
265	SARISHTI DUNG DUNG	PROJECT REPORT ON VERTEBRATE FAUNA OF COLLEGE CAMPUS	Three Months	Jan to March 2025
266	HARMANDEEP KAUR	PROJECT REPORT ON FOSSILS STUDY	Three Months	Jan to March 2025
267	PRIYA	PROJECT REPORT ON VERTEBRATE FAUNA OF COLLEGE CAMPUS	Three Months	Jan to March 2025
268	KAMALJEET PASSI	PROJECT REPORT ON VERTEBRATE FAUNA OF COLLEGE CAMPUS	Three Months	Jan to March 2025

1) Mrs. Kisan Gupta

2) (Dr. Falwinder Veng)

PRACTICALS : Practical based on Theory Papers ZOO 401 & 402 (ZOO 252)

- Classification up to orders habits, habitats, distinctive characters and economic importance(if any) of the following animals :
 Reptilia : *Chelone*(Turtle) and *Testudo* (Tortoise), *Hemidactylus*, *Calotes*, *Draco*, *Varanus*, *Phrynosoma*, *Chamaeleon*, *Typhlops*, *Python*, *Eryx*, *Ptyas*, *Bungarus*, *Naja*, *Hydrus*, *Vipera*, *Crocodilus*, *Gaviadis*.
 Aves : *Casuaris*, *Ardea*, *Anas*, *Milyus*, *Pavo*, *Eudynamis*, *Tyto* and *Alcedo*.
 Mammalia : *Ornithorhynchus*, *Echidna*, *Didelphis*, *Macropus*, *Loris*, *Macaca*, *Manis*, *Hystrix*, *Funambulus*, *Panthera*, *Canis*, *Herpestes*, *Capra*, *Pteropus*.
- Demonstrate the dissection of following animals through video clipping, charts, models etc.
 Chick : Digestive, arterial, venous and urinogenital systems.
 White Rat : Digestive, arterial, venous and urinogenital systems.
- Study of the skeleton of *Varanus*, *Gallus* and Rat/ *Oryctolagus* (Rabbit).
- Study of the following prepared slides :
 Histology of rat/rabbit (compound tissues)
- Study of blood smear of a mammal.
- Identification of food stuffs: starch, glucose, proteins and fats in solution.
- Demonstration of osmosis and diffusion.
- Analysis of urine for urea, chloride, glucose and uric acid.
- An idea of location of endocrine glands in mammals through charts / models/ video clippings
- Tracing of human evolution through models.

Field study : Visit to a fossil Park/Museum. Familiarity with the local vertebrate fauna and report.

Guidelines for conduct of Practical Examination

Max. Marks	: 20
Practical Exam.	: 18 marks
Internal Assessment	: 2 marks
Time	: 3 hours

- Draw a labeled sketch of -----system of given animal and explain it to the examiner. (2)
- Identify the given bones A & B. Make labelled sketches of their respective _____ views. (2)
- Minor experiment of physiology related to blood /osmosis /diffusion. (1½)
- Perform the given physiology experiment, write the procedure and show it to the examiner such as identification of some food stuffs/presence of chloride or glucose in urine etc./Salivary Amylase/Blood. (2)
- Identify the slides D & E giving two reasons for each identification. (2)
- Identify and classify the specimens F to I upto orders. Write a short note on habitat of F, special feature of G, feeding habit of H and economic importance of specimen I. (4½)
- Viva-voce. (2)
- Note book and Project Report. (2)

