

ZOOLOGY DEPARTMENT

PROJECT REPORT B.Sc-2nd year

SESSION 2023-2024

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

OBJECTIVE : To explore the animals at campus especially Vertebrates.

No. OF STUDENTS PARTICIPATED : 65

METHODOLOGY : Students along with teacher Incharge visited college campus to explore different animals and to study their feeding behaviour, nests formation patterns & their defensive behaviour. It works well for observing animals in open environments. Additionally, identification was accomplished with the aid of websites, books & photographs. The biggest reason for having rich faunal diversity in the campus is the presence of many gardens, grasslands and medicinal gardens.

KEY OUTCOMES OF THE PROJECT : Students observed faunal diversity especially Vertebrates & their behaviour. This study suggests ways to preserve natural habitats and oversee human actions to ensure the measures are appropriate for all animals to flourish naturally.

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

K Gupta

1. (Mrs. Kiran Gupta)

Falwadei

2. (Dr. Falwadei Vena),
Teacher Incharge

K Gupta

(Mr. Kiran Gupta)
Head of the Dept.

F. Jyoti L
Principal

Principal,
Govt. College for Girls
LUDHIANA.



PROJECT REPORT DATA (2023-2024)**Class- B.Sc-2nd year****Teacher Incharge : Mrs. Kiran Gupta & Dr. Falwinder Verma****Deptt. of Zoology , Govt. College for Girls, ludhiana**

S.No	Roll No.	Name	Project Name	Duration	Dates
1	201	AKANJOT KAUR	PROJECT REPORT ON VERTEBRATE FAUNA OF COLLEGE CAMPUS	Three Months	Aug to Oct 2023
2	202	AMANDEEP KAUR	PROJECT REPORT ON VERTEBRATE FAUNA OF COLLEGE CAMPUS	Three Months	Aug to Oct 2023
3	204	ASHIMA CHODHA	PROJECT REPORT ON VERTEBRATE FAUNA OF COLLEGE CAMPUS	Three Months	Aug to Oct 2023
4	205	DIYA DEVGAN	PROJECT REPORT ON FOSSILS STUDY	Three Months	Aug to Oct 2023
5	206	GARIMA JAIN	PROJECT REPORT ON VERTEBRATE FAUNA OF COLLEGE CAMPUS	Three Months	Aug to Oct 2023
6	208	HITANSHI SOOD	PROJECT REPORT ON VERTEBRATE FAUNA OF COLLEGE CAMPUS	Three Months	Aug to Oct 2023
7	209	INDU	PROJECT REPORT ON FOSSILS STUDY	Three Months	Aug to Oct 2023
8	210	ISHTA	PROJECT REPORT ON VERTEBRATE FAUNA OF COLLEGE CAMPUS	Three Months	Aug to Oct 2023
9	211	JASKIRAT KAUR	PROJECT REPORT ON FOSSILS STUDY	Three Months	Aug to Oct 2023
10	212	JASLEEN KAUR	PROJECT REPORT ON VERTEBRATE FAUNA OF COLLEGE CAMPUS	Three Months	Aug to Oct 2023
11	213	JASLEEN KAUR	PROJECT REPORT ON FOSSILS STUDY	Three Months	Aug to Oct 2023
12	214	JASMINE	PROJECT REPORT ON VERTEBRATE FAUNA OF COLLEGE CAMPUS	Three Months	Aug to Oct 2023
13	215	JASPREET KAUR	PROJECT REPORT ON FOSSILS STUDY	Three Months	Aug to Oct 2023
14	216	JASPREET KAUR	PROJECT REPORT ON VERTEBRATE FAUNA OF COLLEGE CAMPUS	Three Months	Aug to Oct 2023
15	217	KAHKASHAN JABEEN	PROJECT REPORT ON FOSSILS STUDY	Three Months	Aug to Oct 2023
16	219	KISHIKA	PROJECT REPORT ON FOSSILS STUDY	Three Months	Aug to Oct 2023
17	220	KOMALPREET KAUR	PROJECT REPORT ON VERTEBRATE FAUNA OF COLLEGE CAMPUS	Three Months	Aug to Oct 2023
18	221	KUSUM RANL	PROJECT REPORT ON FOSSILS STUDY	Three Months	Aug to Oct 2023
19	222	MANDEEP KAUR	PROJECT REPORT ON VERTEBRATE FAUNA OF COLLEGE CAMPUS	Three Months	Aug to Oct 2023
20	223	MUNIA	PROJECT REPORT ON FOSSILS STUDY	Three Months	Aug to Oct 2023
21	224	MUSKAN	PROJECT REPORT ON VERTEBRATE FAUNA OF COLLEGE CAMPUS	Three Months	Aug to Oct 2023
22	225	NAVIKA	PROJECT REPORT ON FOSSILS STUDY	Three Months	Aug to Oct 2023
23	226	PALAK AHUJA	PROJECT REPORT ON VERTEBRATE FAUNA OF COLLEGE CAMPUS	Three Months	Aug to Oct 2023
24	227	RAMANPREET KAUR	PROJECT REPORT ON FOSSILS STUDY	Three Months	Aug to Oct 2023
25	228	SAKSHI DUGGAL	PROJECT REPORT ON VERTEBRATE FAUNA OF COLLEGE CAMPUS	Three Months	Aug to Oct 2023
26	229	SALONI ARORA	PROJECT REPORT ON FOSSILS STUDY	Three Months	Aug to Oct 2023
27	230	SAMRITI JOSHI	PROJECT REPORT ON VERTEBRATE FAUNA OF COLLEGE CAMPUS	Three Months	Aug to Oct 2023
28	231	SHEFALI SHARMA	PROJECT REPORT ON FOSSILS STUDY	Three Months	Aug to Oct 2023
29	232	SIMARLEEN KAUR	PROJECT REPORT ON VERTEBRATE FAUNA OF COLLEGE CAMPUS	Three Months	Aug to Oct 2023
30	233	SIMARPREET KAUR	PROJECT REPORT ON FOSSILS STUDY	Three Months	Aug to Oct 2023
31	234	SIMRANJIT KAUR	PROJECT REPORT ON VERTEBRATE FAUNA OF COLLEGE CAMPUS	Three Months	Aug to Oct 2023
32	235	SNEHA MISHRA	PROJECT REPORT ON FOSSILS STUDY	Three Months	Aug to Oct 2023
33	236	SONAMPREET KAUR S	PROJECT REPORT ON VERTEBRATE FAUNA OF COLLEGE CAMPUS	Three Months	Aug to Oct 2023
34	238	SUMANDEEP KAUR	PROJECT REPORT ON VERTEBRATE FAUNA OF COLLEGE CAMPUS	Three Months	Aug to Oct 2023
35	239	SUPREET GROVER	PROJECT REPORT ON FOSSILS STUDY	Three Months	Aug to Oct 2023
36	240	TANISHA SHARMA	PROJECT REPORT ON VERTEBRATE FAUNA OF COLLEGE CAMPUS	Three Months	Aug to Oct 2023
37	241	TANYA	PROJECT REPORT ON FOSSILS STUDY	Three Months	Aug to Oct 2023
	242	VANEET KAUR	PROJECT REPORT ON VERTEBRATE FAUNA OF COLLEGE CAMPUS	Three Months	Aug to Oct 2023
38	244	AMANAT KAUR	PROJECT REPORT ON VERTEBRATE FAUNA OF COLLEGE CAMPUS	Three Months	Aug to Oct 2023

245	DIYA AGGARWAL	PROJECT REPORT ON FOSSILS STUDY		
246	AARTI PANDEY	PROJECT REPORT ON VERTEBRATE FAUNA OF COLLEGE CAMPUS	Three Months	Aug to Oct 2023
247	LAKHWINDER KAUR	PROJECT REPORT ON FOSSILS STUDY	Three Months	Aug to Oct 2023
248	ASHU PACHAURI	PROJECT REPORT ON VERTEBRATE FAUNA OF COLLEGE CAMPUS	Three Months	Aug to Oct 2023
249	AVNEET KAUR	PROJECT REPORT ON FOSSILS STUDY	Three Months	Aug to Oct 2023
250	DAVINDER KAUR	PROJECT REPORT ON VERTEBRATE FAUNA OF COLLEGE CAMPUS	Three Months	Aug to Oct 2023
251	HARMAN SOKHI	PROJECT REPORT ON FOSSILS STUDY	Three Months	Aug to Oct 2023
252	HARMADEEP KAUR	PROJECT REPORT ON VERTEBRATE FAUNA OF COLLEGE CAMPUS	Three Months	Aug to Oct 2023
253	SUPRIYA	PROJECT REPORT ON FOSSILS STUDY	Three Months	Aug to Oct 2023
254	AMRITPAL KAUR	PROJECT REPORT ON VERTEBRATE FAUNA OF COLLEGE CAMPUS	Three Months	Aug to Oct 2023
255	HARSIMRAN KAUR	PROJECT REPORT ON FOSSILS STUDY	Three Months	Aug to Oct 2023
256	JASLEEN KAUR	PROJECT REPORT ON VERTEBRATE FAUNA OF COLLEGE CAMPUS	Three Months	Aug to Oct 2023
257	KHUSHI MISHRA	PROJECT REPORT ON FOSSILS STUDY	Three Months	Aug to Oct 2023
258	MANDEEP KAUR	PROJECT REPORT ON VERTEBRATE FAUNA OF COLLEGE CAMPUS	Three Months	Aug to Oct 2023
259	MANJOT KAUR	PROJECT REPORT ON FOSSILS STUDY	Three Months	Aug to Oct 2023
260	NEHA SAHNI	PROJECT REPORT ON VERTEBRATE FAUNA OF COLLEGE CAMPUS	Three Months	Aug to Oct 2023
261	PRABHJOT KAUR	PROJECT REPORT ON FOSSILS STUDY	Three Months	Aug to Oct 2023
262	SIMRANJEET KAUR	PROJECT REPORT ON VERTEBRATE FAUNA OF COLLEGE CAMPUS	Three Months	Aug to Oct 2023
263	ARSHDEEP KAUR	PROJECT REPORT ON FOSSILS STUDY	Three Months	Aug to Oct 2023
264	TARANPREET KAUR	PROJECT REPORT ON VERTEBRATE FAUNA OF COLLEGE CAMPUS	Three Months	Aug to Oct 2023
265	AMANDEEP KAUR	PROJECT REPORT ON FOSSILS STUDY	Three Months	Aug to Oct 2023
267	ARSHDEEP KAUR	PROJECT REPORT ON FOSSILS STUDY	Three Months	Aug to Oct 2023
268	JASHANPREET KAUR	PROJECT REPORT ON VERTEBRATE FAUNA OF COLLEGE CAMPUS	Three Months	Aug to Oct 2023
270	KOMALPREET KAUR	PROJECT REPORT ON VERTEBRATE FAUNA OF COLLEGE CAMPUS	Three Months	Aug to Oct 2023
272	NEHA	PROJECT REPORT ON VERTEBRATE FAUNA OF COLLEGE CAMPUS	Three Months	Aug to Oct 2023
273	MEHAK	PROJECT REPORT ON FOSSILS STUDY	Three Months	Aug to Oct 2023
274	SIMRAN KAMBOJ	PROJECT REPORT ON VERTEBRATE FAUNA OF COLLEGE CAMPUS	Three Months	Aug to Oct 2023

Kumpli
(Mrs. Kiana Kumpli)

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Suggested Readings

1. Taneja, S.K. : Biochemistry & Animal Physiology, Trueman Book Co. 1997.
2. Guyton, A.S. : Text Book of Medical Physiology, 14th edition, W.B. Saunders Company, 2020.
3. Robert, K., Murray, R.K., Daryl, M., Gramer, K., Victor, W and Woodwell : Harper's Biochemistry, 22nd edition, Prentice - Hall International, Inc. 1990
4. Nelson, D.L. and Cox, M.M. : Lehninger Principles of Biochemistry, 5th edition, W.H. Freeman and Company, New York, 2008.

PRACTICALS : Practical based on Theory Papers ZOO 301 & 302 (ZOO 251)

1. Classification up to orders habits, habitats, distinctive characters and economic importance(if any) of the following animals :

Urochordata	:	<i>Herdmania, Molgula, Pyrosoma, Dololium, Salpa & Oikopleura.</i>
Cephalochordata	:	<i>Amphioxus</i>
Cyclostomata	:	<i>Myxine, Petromyzon & Ammocoetes Larva.</i>
Chondrichthyes	:	<i>Zygaena (Hammer headed shark), Pristis (Saw fish), Narcine (Electric ray), Trygon, Rhinobatus and Chimaera (Rabbit fish).</i>
Actinoptergii	:	<i>Polyporus, Acipenser, Leptosteus, Maroena, Mystus, Catla, Hippocampus, Syngnathus, Exocoetus, Anabas, Diodon, Tetradon, cheneis and Solea</i>
Dipneusti (Dipnoi)	:	<i>Protopterus</i>
Amphibia	:	<i>Uraeotyphlus, Necturus, Amphiuma, Ambystoma and its Axolotl larva, Triton, Salamandra, Hyla, Rhacophorus.</i>
2. Demonstrate the dissection of following animals through video clipping, charts, models etc.

<i>Herdmania</i>	:	General anatomy
<i>Labeo</i>	:	Digestive, reproductive systems, heart, afferent and efferent branchial arteries and cranial nerves.
3. Study of the skeleton of *Labeo*, *Hoplobatrachus Tigerinus*(frog)
4. Study of the following prepared slides :
 - T.S. *Amphioxus* through various regions.
 - Spicules & pharynx of *Herdmania* & pharynx of *Amphioxus*
5. Study of the following prepared slides :
 - Histology of frog (compound tissues).
6. Recording of blood pressure of man
7. Estimation of haemoglobin content in blood
8. Estimation of the presence of amylase in saliva, denaturation by pH and temperature
9. **Field study : Visit to a fossil Park/Museum. Familiarity with the local vertebrate fauna and report.**

