



शिवाजी कॉलेज  
(दिल्ली विश्वविद्यालय)  
*Shivaji College*  
(University of Delhi)

NAAC ACCREDITED "A" GRADE COLLEGE



### SUPPORTING DOCUMENTS FOR 1.3.3

Number of Students Undertaking Project work/Field work/ Internships



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Department of Geography: Visit to Manoli Toki Village, Haryana on 24.03.2024

P/1553/24  
19/03/24

A.O. + A.O. A.C.  
19/3/24

To  
The Principal  
Shivaji College,  
University of Delhi

Sub: Permission for one days academic excursion

Respected Sir

The students of B. A. (Hons.) Geography, Semester VI, Paper- Disaster Management Based Project Report of Shivaji College is going to field visit (study tour) as one day excursion outreach programme to Manoli Toki Village, Sonapat Haryana on 20/03/24 (Wednesday). This is the part of their academic curriculum and provide opportunity for experiential learning. There are 53 Students and 3 Faculty Members (Prof. Tejbir S. Rana: Tour Incharge and Dr. Prabuddh Kumar Mishra, Dr. Usha Rani) are participating in this study tour.

Kindly grant permission to for the same.

Thanking You!

Yours Sincerely

Prof. Tejbir Singh Rana  
Department of Geography

18/3/24

Permission may be allowed.



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**Department of Geography: List of Student's Visited to Manoli Toki Village, Haryana**

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संदर्भ सं० / Ref. No. SH/001/714/24 दिनांक/Dated 19/03/2024

**TO WHOMSOEVER IT MAY CONCERN**

The students of B. A. (Hons.) Geography, Semster VI, Paper- Disaster Management Based Project Report of Shivaji College is going to field visit (study tour) as one day excursion outreach programme to Manoli Toki Village, Sonapat Haryana on 20/03/24 (Wednesday). This is the part of their academic curriculum and provide opportunity for experiential learning. There are 53 Students and 3 Faculty Members (Prof. Tejbir S. Rana: Tour Incharge and Dr. Prabuddh Kumar Mishra, Dr. Usha Rani) are participating in this study tour.

S No.	College Roll no.	Exam Roll No	Student's Name	Signature
1	21/31072	21071513001	Akshera Mehrotra	
2	21/31060	21071513002	Alka Mishra	
3	21/31063	21071513003	Aman kr Yadav	
4	21/31052	21071513004	Anamika Yadav	
5	21/31016	21071513005	Angel	
6	21/31089	21071513006	Anirudhdha Yadav	
7	21/31056	21071513007	Anshul Kumar	
8	21/31015	21071513008	Apurva	
9	21/31012	21071513009	Ashika Oran	
10	21/31040	21071513010	Ashish Kumar	
11	21/31051	21071513011	Ayush Yadav	

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*Usha Rani*

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टेलीफैक्स/Telefax: 011-25155551 • ई-मेल/E-mail: shivajicollege.ac@gmail.com • वेब/Website : www.shivajicollege.ac.in





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संदर्भ सं० / Ref. No. \_\_\_\_\_ दिनांक / Dated \_\_\_\_\_

S No.	College Roll no.	Exam Roll No	Student's Name	Signature
12	21/31012	21071513012	Bharti	Bharti
13	21/31025	21071513013	Deeksha	Deeksha
14	21/31013	21071513014	Druv Chandra	Druv
15	21/31027	21071513015	Dimple	Dimple
16	21/31042	21071513016	Gauri Arora	Gauri
17	21/31045	21071513017	Gourav	Gourav
18	21/31004	21071513018	Gunjan	Gunjan
19	21/31001	21071513019	Kulvinder Dahiya	Kulvinder
20	21/31074	21071513020	Manohar Kumar	Manohar
21	21/31021	21071513021	Mritika Mondal	Mritika Mondal
22	21/31065	21071513022	Muskan	Muskan
23	21/31024	21071513023	Nakshatrach	Nakshatrach
24	21/31039	21071513024	Nandini	Nandini
25	21/31059	21071513025	Neha Yadav	Neha
26	21/31006	21071513026	Niranjan Baro	Niranjan
27	21/31010	21071513027	Nitiraj Bania	

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7/5/2020

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संदर्भ सं० / Ref. No. \_\_\_\_\_ दिनांक/Dated \_\_\_\_\_

S No.	College Roll no.	Exam Roll No	Student's Name	Signature
44	21/31017	21071513045	Shrishti	<i>Shrishti</i>
45	21/31031	21071513046	Stanzin Yangdon	<i>Yangdon</i>
46	21/31070	21071513047	Subham Kumar Mallick	<i>Subham</i>
47	21/31008	21071513048	Sweta Mathur	<i>Sweta</i>
48	21/31091	21071513049	Utkarsh Mishra	<i>Utkarsh</i>
49	21/31055	21071513050	Vedanshi Singh	<i>Vedanshi</i>
50	21/31005	21071513051	Vibhabri	<i>Vibhabri</i>
51	21/31071	21071513052	Yash Raj	<i>Yash Raj</i>
52	21/31035	21071513053	Yashwant	<i>Yashwant</i>
53	21/31044	21071513054	Abhay Soni	<i>Abhay</i>

*Prof. Virender Bhardwaj*  
Prof. Virender Bhardwaj  
Principal

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Department of Geography: Photographs of Manoli Toki Village, Haryana, Visit





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Department of Business Economics: Industrial Visit to Mother Dairy Plant



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UNIVERSITY OF DELHI  
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SHIVAJI COLLEGE  
(UNIVERSITY OF DELHI)  
DETAILS OF THE EVENT

TITLE OF THE EVENT:	INDUSTRIAL VISIT – MOTHER DAIRY PLANT
DATE AND TIME:	15 FEB 2024, 10:00 a.m.
NATURE:	OFFLINE
VENUE:	Mother Dairy Plant - Patparganj
DEPARTMENT/COMMITTEE/SOCIETY:	forBES – The Business Economics Society
TIC/CONVENER NAME:	Dr. Suman Kharbanda
NUMBER OF PARTICIPANT:	43
FINANCIAL ASSISTANCE (IF ANY):	NO

Dr. Suman Kharbanda  
Tic, Department of Business Economics





## Department of Business Economics: Report of Industrial Visit to Mother Dairy Plant

### Introduction:

The Department of Business Economics at Shivaji College, University of Delhi, embarked on an insightful industrial visit to the Mother Dairy Plant in Patparganj, New Delhi, on February 15th, 2024, under the vision of Dr. Suman Kharbanda ma'am. The visit aimed to provide students with a firsthand understanding of the intricate processes involved in dairy production, from sourcing raw milk to packaging the final products. This report encapsulates the educational journey and experiences of the business economics students during the visit.

### Company Profile:

Mother Dairy is a renowned dairy company known for its commitment to quality and sustainability. With a presence across India, it plays a significant role in ensuring a steady supply of fresh dairy products.

### Objectives:

- Gain practical insights into the dairy production industry.
- Understand the operational processes involved in milk processing and packaging.
- Explore the principles of precision and sustainability in dairy production.
- Identify the economic factors influencing the dairy business.



Contd..

#### Itinerary:

- **Arrival and Welcome:** The students arrived at the Mother Dairy Plant and were warmly welcomed by the company representatives.
- **Presentation:** An introductory presentation provided an overview of the company's history, mission, and operations.
- **Plant Tour:** Guided tours were conducted through various sections of the plant, showcasing the milk processing units, packaging facilities, and quality control measures.
- **Interaction:** Students had the opportunity to interact with plant managers and workers, gaining insights into their roles and responsibilities.
- **Q&A Session:** A question-and-answer session allowed students to clarify doubts and delve deeper into specific aspects of dairy production.
- **Departure:** The visit concluded with a debriefing session and expressions of gratitude to the Mother Dairy team for their hospitality.

#### Learning Outcomes:

- Students gained practical insights into the dairy production process, enhancing their understanding of supply chain dynamics and operational management.
- The visit reinforced the importance of precision, hygiene, and sustainability in the dairy industry, aligning with principles of business economics.



Contd..

- Interaction with industry professionals provided valuable career guidance and networking opportunities for students interested in the dairy sector.

### Memorable Moments :



*Handwritten signature*





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Contd..



The industrial visit to Mother Dairy proved to be an enriching experience for the business economics students, offering invaluable insights into the dairy production industry's intricacies. The visit underscored the importance of experiential learning in complementing classroom education and preparing students for future endeavors in the dynamic world of business economics.

This report serves as a testament to the educational significance of industrial visits and expresses gratitude to Mother Dairy for their hospitality and contribution to student learning.

[Industrial Visit Attendance](#)

Dr. Suman Kharbanda  
TIC, Department of Business Economics





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### Business Economics: Attendance of Mother Dairy Visit

BBE Mother Dairy Plant Visit			
Attendance (15/02/24)			
NAME	Roll No.	Seat	Sign
1) Shweta	21/2078	6th	Shweta
2) Tanisha	22/2053	4th	Tanisha
3) Manya	20/2021	4th	Manya
4) Sumit	21/2092	6th	Sumit
5) Tisha	22/2057	4th	Tisha
6) Akanksha	22/2006	4th	Akanksha
7) Nisha	22/2036	2nd	Nisha
8) Adarna	22/2005	2nd	Adarna
9) Priyanshi	22/2047	2nd	Priyanshi
10) Ansh	23/2017	2nd	Ansh
11) Jas	23/2025	2nd	Jas
12) Varsh Gudi	23/2076	2nd	Varsh
13) Harshi	23/2022	2nd	Harshi
14) Yash Singh	23/2067	2nd	Yash Singh
15) Sushma Saha	22/2056	4th	Sushma
16) Udit	23/2060	4th	Udit
17) Shani	23/2051	2nd	Shani
18) Soniya	23/2056	2nd	Soniya
19) Vedant Kona	23/2063	4th	Vedant
20) Rujul	22/2046	2nd	Rujul
21) Nishu	23/2099	6th	Nishu
22) Dheeraj	21/2169	2nd	Dheeraj
23) Varsh Gupta	23/2063	2nd	Varsh Gupta
24) Swastika	22/2038	2nd	Swastika
25) Bhavika	23/2075	2nd	Bhavika
26) Ananya	23/2003	2nd	Ananya
27) Ansh	22/2017	4th	Ansh
28) Trish	23/2025	4th	Trish
29) Samridh	22/2048	4th	Samridh
30) Tanish	23/2059	2nd	Tanish
31) Vibha	21/2094	6th	Vibha
32) Pratyush	21/2130	6th	Pratyush
33) Shikha	21/2057	6th	Shikha
34) Kshit Jain	23/2079	2nd	Kshit Jain
35) Vasavi	23/2093	4th	Vasavi
36) Anshu	21/2010	4th	Anshu
37) Ananya	23/2002	2nd	Ananya
38) Prabhesh	21/2077	6th	Prabhesh
39) Jai	21/2179	6th	Jai
40) Harishvardhan	21/2120	6th	Harishvardhan
41) Rishabh	21/2106	6th	Rishabh
42) Shikha	21/2181	6th	Shikha
43) Aditi	21/2147	6th	Aditi



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## Department of English: Excursion to Amrit Udyan

### Excursion to Amrit Udyan and President's Estate

On March 9, 2024, the English Department of Shivaji College organized a captivating excursion to Amrit Udyan in Delhi, complemented by a museum tour of the President's Estate quarters. Guided by faculty members, students explored the lush greenery of Amrit Udyan, gaining insights into its botanical marvels and historical significance. Additionally, we embarked on an enlightening journey through the President's Estate quarters, delving into the rich heritage and architectural splendor of this esteemed residence. This holistic experience fostered a deeper understanding of both nature's bounty and the cultural heritage of our nation's capital, leaving participants enriched and inspired.

**Learning Outcome-** It was a tremendous learning experience for all of us to take a glimpse of the wild and domestic flowers in India and additionally walk through the corridors of history right from Independence to the current times, to understand the political heritage of our country right from the drafting of the constitution to its current reverence in the minds of the polity.

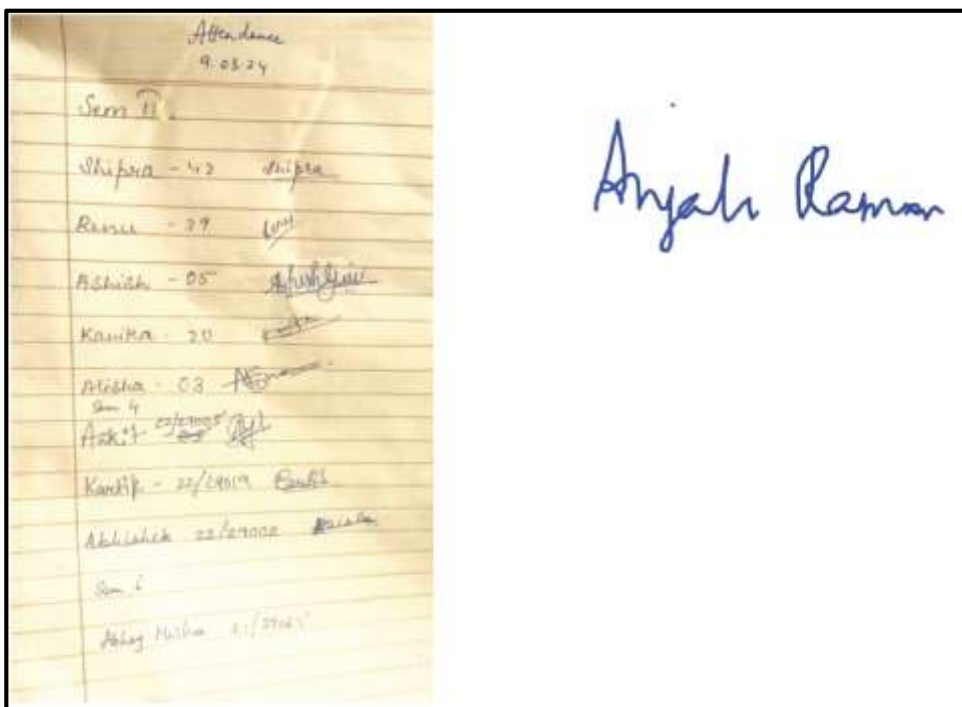




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Department of English: Photograph and Attendance of Amrit Udyan Visit







**Department of Botany: Educational Visit to Neela Hauz Biodiversity Park developed by DDA in South Delhi (31/10/2023)**

Students of B.Sc. (H) Botany, 2<sup>nd</sup> year were taken for the Educational Visit to Neela Hauz Biodiversity Park developed by DDA in South Delhi, on 31/10/2023. This Educational visit is a part of the curriculum. Neela Hauz- an exemplary model of Urban Rejuvenation and a home for all the different kinds of Flora and Fauna. Students were apprised of the natural and existing science of wastewater treatment by filter bed of Integrated Constructed Wetland System with zero energy input and high efficiency. Facilitated by Dinesh Albertson, who shared his knowledge and experiences which enabled students to have an upright grasp of this natural science. Students witnessed the Natural Water Treating System that includes in situ remediation of sewage water by two Oxidation ponds, a Filtration zone and Aquatic plants. Students were made aware of all the native and medicinal plants along with the resident and migratory birds, Dragonflies, and all the components of an active wetland area that contributes to the ecological health of Neela Hauz Biodiversity Park. Dr Smita Tripathi, Dr Misha Yadav and Dr Anurag Maurya from the Department of Botany accompanied the students.





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**Department of Botany: Attendance sheet of Educational Visit to Neela Hauz  
Biodiversity Park developed by DDA in South Delhi (31/10/2023)**

B.Sc.(H). Botany II<sup>nd</sup> Year  
Attendance - Visit to Neela Hauz

31/10/2023

S.No	R.No	Name	Consent form	In time signature	Out time signature
1	22/09001	Aishwarya Yadav	✓	<i>Aishwarya</i>	1:20 <i>Aishwarya</i>
2	22/09002	Akash Satheesh	✓	<i>Akash</i>	1:23 <i>Anjali</i>
3	22/09004	ANJALI	✓	<i>Anjali</i>	1:23 <i>Anjali</i>
4	22/09005	Ankita Kumar	✓	<i>Ankita</i>	1:23 <i>Ankita</i>
5	22/09006	Ayush Kumar Choudhary	✓	<i>Ayush</i>	1:23 <i>Anjali</i>
6	22/09008	DEEPIKA GARGI	Ab		
7	22/09009	KATARIA JANVI	Ab		
8	22/09010	KUMARI	Ab		
9	22/09011	Nisha Rawat	✓	<i>Nisha Rawat</i>	1:26 <i>Nisha</i>
10	22/09012	Nitesh Singh	✓	<i>Nitesh Singh</i>	1:25 <i>Nitesh</i>
11	22/09013	NITISH ANJNA	Ab		
12	22/09014	Rajan Kumar	Ab		
13	22/09015	RAKESH SAHIL VERMA	✓	<i>Rakesh</i>	1:22 <i>Rakesh</i>
14	22/09017	SALONI	✓	<i>Saloni</i>	1:21 <i>Saloni</i>
15	22/09018	SANDEEP RAI	✓	<i>Sandeep</i>	1:30 <i>Sandeep</i>
16	22/09019	TANNU	Ab		
17	22/09021	TRIBENI SHARMA	✓	<i>Tribeni Sharma</i>	1:21 <i>Tribeni Sharma</i>
18	22/09022	Anjali	✓	<i>Anjali</i>	Anjali 1:30
19	22/09024	OMJI YADAV	✓	<i>Omyadav</i>	1:20 <i>Omyadav</i>
20	22/09025	Dolly chawla	✓	<i>Dolly chawla</i>	Dolly chawla 1:20
21	22/09026	Shubham Nandawal	✓	<i>Shubham</i>	1:21 <i>Shubham</i>
22	22/09027	NEHA PANDEY	✓	<i>Nandey</i>	1:26 <i>Nandey</i>
23	22/09028	HITESH DHARIWAL	Ab		
24	22/09029	SHUBHAM KUMAR GUPTA	Ab		
25	22/09030	Shreya	Ab		
26	22/09031	Urvashi Singh	Ab		
27	22/09032	Anshika Singh	✓	<i>Anshika</i>	1:21 <i>Anshika</i>
28	22/09033				



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## Department of Botany: Photographs of Educational Visit to Neela Hauz Biodiversity Park developed by DDA in South Delhi (31/10/2023)







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Department of Botany: Educational Visit to Department of Biochemical Engineering and Biotechnology, IIT Delhi  
(15.04.2024)

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संदर्भ सं०/Ref. No. SH/ADM/936/24

दिनांक/Dated 27/04/24

**TO WHOM IT MAY CONCERN**

This is to certify that the mentioned 26 students of B.Sc. (H) Botany – VI Semester from Shivaji College, University of Delhi went on an **educational field visit** to the Department of Biochemical Engineering and Biotechnology, IIT Delhi, on **April 15, 2024 (Monday)**. This visit provided students an opportunity to deepen their understanding of the fermentation process, as they observed the operation of laboratory-scale fermenters in the Bioprocess laboratory and UG laboratory. They explored cutting-edge research facilities, including TOC analyser, HPLC-MS, GC-MS, and ion exchange chromatography housed in the Instrumentation Lab and Lotus Advanced Analytical Lab. They were introduced to methods and instruments for metagenomics research and the culture of soil microbes concerning plant health in the Environmental Genomics Laboratory. **Dr Anurag Maurya and Dr Pawan Kumar** were the conveners of this visit.

S. No.	Roll No.	Name of Student	S. No.	Roll No.	Name of Student
1.	21/09002	Jyoti	2.	21/09046	Manvi Chaudhary
3.	21/09004	Kundan Singh	4.	21/09047	Manisha
5.	21/09012	Priya Nautiyal	6.	21/09048	Palak Gupta
7.	21/09019	Kanak Bhardwaj	8.	21/09049	Sneha Goyal
9.	21/09022	Deepali Singh	10.	21/09050	Aayushi Mehra
11.	21/09025	Khushi V. B. Singh	12.	21/09051	Sanjivani Jaglan
13.	21/09026	Jeorus M. Singh	14.	21/09052	Aditya Bardhan
15.	21/09027	Anisha Singh	16.	21/09053	Anurita
17.	21/09028	Sandhya Yadav	18.	21/09055	Saniya Praveen
19.	21/09038	Nikita	20.	21/09056	Ayushi Yadav
21.	21/09042	Sanwari Jain	22.	21/09059	Supriya
23.	21/09043	Sakshi Singh	24.	21/09062	Harshita Tanwar
25.	21/09044	Mahima Sharma	26.	21/09064	Ansh Kumar

Prof. Virender Bhardwaj  
Principal

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Department of Botany: Photographs of Educational Visit to Department of Biochemical Engineering and Biotechnology, IIT Delhi (15.04.2024)







Department of Botany: Field Visit to IARI (16.04.2024)

## DEPARTMENT OF BOTANY

### Field Visit – INDIAN AGRICULTURE RESEARCH INSTITUTE- ICAR

Pusa, New- Delhi

Date- 16/04/2014

The students of B.Sc Life science IV sem who opted for Applied Phycology paper as discipline specific element course were taken on a visit to the Department of microbiology , PUSA on 16/04/2024 . "The purpose of this visit was to observe and identify algae, and it was also helpful in gaining knowledge about their applied aspects. The students were accompanied with Dr. Priyanka Ojha.

The students gathered near ICAR and were then taken to the National Centre for Blue-Green Algae. Dr. Abraham, Principal Scientist at IARI, guided the students and provided essential information about the Azolla-Anabaena association and the use of algae as a biofertilizer. Additionally, the students had the opportunity to observe various herbarium specimens at NBPGR.

"The permission letter for the visit, geotagged photos, and the attendance of students have been attached."





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Department of Botany: List of Students to Field Visit to IARI (16.04.2024)

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संदर्भ सं./Ref. No. SH/Adm/1168/24 दिनांक/Dated 29/05/2024

**TO WHOM IT MAY CONCERN**

This is to certify that the mentioned 15 students of B.Sc. LS IV semester from Shivaji College, University of Delhi went on an educational field visit to the Indian Agricultural Research institute, ICAR, New Delhi on **April 16, 2024 (Tuesday)**. This visit provided students an opportunity to observe and identify algae, and it was also helpful in gaining knowledge about the applied aspects of algae. Additionally, students had the chance to observe different kinds of herbarium specimens in NBPGR. The visit was purely academic in nature. Priyanka Ojha was the convenor of this visit.

Sr. No.	Name	Roll No.
1	Anjali Verma	22/23014
2	Anuj Bansal	22/23016
3	Isha Rawat	22/23032
4	Jiya Singh	22/23038
6	Nikita	22/23050
7	S. Gautam	22/23065
8	Sarthak	22/23068
9	Saumya Jha	22/23069
10	Shaurya	22/23071
11	Ashna Kalra	22/23095
12	Akshita Yadav	22/23099
13	Abhishek	22/23006
14	Priya Pandey	22/23060
15	Swaymbhoo	22/23077

  
**Prof. Virender Bhardwaj**  
 Principal



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## Shivaji College

(University of Delhi)



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### Department of Botany: List of Students to Field Visit to IARI (16.04.2024)

LS IV SEMESTER		DSE- Applied Phycology		
Name	Roll no.	Before Visit	After Visit	
1 Anjali Verma	22/23014	Anjali 10:20	Anjali 2:30	
2 Anuj bansal	22/23016	Anuj 10:23	Anuj 2:30	
3 Isha Rawat	22/23032	Isha 10:20	Isha 2:30	
4 Jiya Singh	22/23038	Jiya 10:20	Jiya 2:30	
5 Krishnali Boruah	22/23042			
6 Nikita	22/23050	Nikita 10:20	Nikita 2:30	
7 Pooja Saini	22/23055			
8 S.Gautam	22/23065	S. Gautam 10:20	S. Gautam 2:30	
9 Sarthak	22/23068	Sarthak 10:24	Sarthak 2:31	
10 Saumya Jha	22/23069	Saumya 10:20	Saumya 2:30	
11 Shaurya	22/23071			
12 Simran Raj	22/23073			
13 Ashna Kalra	22/23095	Ashna 10:20	Ashna 2:26	
14 Akshita Yadav	22/23099	Akshita 11:01	Akshita 2:29	
15 Abhishek	22/23006	Abhishek 10:20	Abhishek 2:29	
16 Swamybhoo	22/23077	Swamy 10:23	Swamy 2:35	
17 Priya Pandey	22/23060	Priya Pandey 10:20	Priya Pandey 2:26	





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Department of Botany: Photographs of Students to Field Visit to IARI (16.04.2024)





### Field Visit Report: Plant Tissue Culture Laboratory, University of Delhi

On 30th April 2023, a field visit was organized for 50 students from the Botany Department of Shivaji College, University of Delhi, enrolled in the Skill Enhancement Paper on Plant Tissue Culture of Semester IV by Dr. Pawan Kumar and Dr. Devender Singh Meena as conveners. The students visited the Plant Tissue Culture Laboratory in the Department of Botany at the University of Delhi. The students were hosted by Prof. Sandeep Das in his lab, where they observed advanced tissue culture techniques. The visit commenced in the *Arabidopsis* Culture Room, where students observed the controlled conditions essential for plant growth, including specific temperature, light, and humidity settings required for cultivating *Arabidopsis thaliana*. Following this, they proceeded to the Plant Tissue Culture Room, where Dr. Ekta Bhardwaj, a PhD student, provided a detailed demonstration of the tissue culture process, explaining each critical step from medium preparation and sterilization to the delicate inoculation procedures necessary for successful tissue propagation. The students were able to see firsthand how plant tissues are cultured under sterile conditions to promote growth and development. Dr. Bhardwaj's insights were invaluable, highlighting not only the technical steps but also the applications and significance of plant tissue culture in research and biotechnology. The session concluded with an engaging Q&A, where students discussed the real-world applications and challenges of plant tissue culture, gaining a comprehensive understanding of its importance in modern botanical research. Overall, the visit provided a unique and enriching experience that deepened the students' practical knowledge and appreciation for plant tissue culture techniques. This hands-on exposure was particularly beneficial for the students, as it reinforced classroom concepts and introduced them to real-world applications of plant tissue culture. They were able to observe the meticulous process required to maintain contamination-free environments, critical for the successful cultivation of plant tissues. Such experiences are instrumental in motivating students to explore further studies and careers in plant biotechnology and related fields. Overall, the visit provided a unique and enriching experience that deepened the students' practical knowledge and appreciation for plant tissue culture techniques, leaving them inspired to apply these insights in their own academic projects and future research endeavors.





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## Field Visit Report: Plant Tissue Culture Laboratory, University of Delhi



संदर्भ सं० / Ref. No. SHV/2024/1663/24

दिनांक/Dated 12/08/2024

### TO WHOM IT MAY CONCERN

This is to certify that the below-mentioned 50 students of the Sem IV of SEC paper, Plant Tissue Culture, went on an educational field visit to the Plant Tissue Culture Laboratory, Department of Botany, North Campus, University of Delhi on 30<sup>th</sup> April 2024 (Tuesday). This field visit was organised by the Department of Botany, Shivaji College, University of Delhi. This visit allowed students to deepen their understanding of various tools and techniques of Plant Tissue Culture. Dr Pawan Kumar and Dr Devender Singh Meena were conveners of this visit.

SN	College Roll No.	Name	Course
1	22/49076	Naseem Shafi	B.A. (Program)
2	22/49209	Sourav Kumar	B.A. (Program)
3	22/49095	Chetan Meena	B.A. (Program)
4	22/49073	Diya Talwadia	B.A. (Program)
5	22/49153	Anirudh	B.A. (Program)
6	22/49071	Ayush Gautam	B.A. (Program)
7	22/49066	Aaditya K. Yadav	B.A. (Program)
8	22/49152	Amrit Raj	B.A. (Program)
9	22/49083	Ruchiar	B.A. (Program)
10	22/33001	Aditya	B.A. (Hons) Hindi
11	22/06018	Mansi	B.Sc. (H) Biochemistry
12	22/06012	Gayathri Krishna	B.Sc. (H) Biochemistry
13	22/09004	Anjali	B.Sc.(H) Botany
14	22/09022	Tarini	B.Sc.(H) Botany
15	22/09006	Ayushi K.Choudhary	B.Sc.(H) Botany
16	22/09015	Rakesh	B.Sc.(H) Botany
17	22/09014	Rajan Kumar	B.Sc.(H) Botany
18	22/09018	Saloni	B.Sc.(H) Botany
19	22/09008	Deepika	B.Sc.(H) Botany
20	22/09005	Ankit Kumar	B.Sc.(H) Botany
21	22/09001	Anshwari	B.Sc.(H) Botany
22	22/09012	Nitesh Singh	B.Sc.(H) Botany
23	22/09028	Neha Pandey	B.Sc.(H) Botany
24	22/09025	Omji Yadav	B.Sc.(H) Botany
25	22/22017	Senali	B.Sc.(Hons.) Zoology

SN	College Roll No.	Name	Course
26	22/22003	Bhansu Gautam	B.Sc. (H) Zoology
27	22/22019	Vivek Singh	B.Sc.(H) Zoology
28	22/22011	Saheli Kumar	B.Sc.(H) Zoology
29	22/22023	Priyaranjan Debury	B.Sc.(H) Zoology
30	22/22014	Sonam Singh	B.Sc. (H) Zoology
31	22/22032	Maikan Gupta	B.Sc. (H) Zoology
32	22/23037	Jhendra Singh	B.Sc. (Prog) Life Sciences
33	22/23025	Babita	B.Sc. (Prog) Life Sciences
34	22/23045	Mohd Haseem	B.Sc. (Prog) Life Sciences
35	22/23036	Jatin	B.Sc. (Prog) Life Sciences
36	22/23030	Humair Ansari	B.Sc. (Prog) Life Sciences
37	22/23077	Swayambhoo	B.Sc. (Prog) Life Sciences
38	22/23064	Rohit Kumar	B.Sc. (Prog) Life Sciences
39	22/23086	Yash K Sharma	B.Sc. (Prog) Life Sciences
40	22/23039	Karan Pasi	B.Sc. (Prog) Life Sciences
41	22/23029	Hafsa Azam	B.Sc. (Prog) Life Sciences
42	22/23043	Modella Sathkumar	B.Sc. (Prog) Life Sciences
43	22/23050	Nikita	B.Sc. (Prog) Life Sciences
44	22/23018	Anushka Sharma	B.Sc. (Prog) Life Sciences
45	22/23095	Ashra Kato	B.Sc. (Prog) Life Sciences
46	22/23101	Saunish Pandey	B.Sc. (Prog) Life Sciences
47	22/09011	Nisha Rawat	B.Sc.(H) Botany
48	22/09026	Dolly Chawla	B.Sc.(H) Botany
49	22/09033	Anshika Singh	B.Sc.(H) Botany
50	22/09011	Jarvi	B.Sc.(H) Botany

Prof. Virender Bhardwaj  
Principal

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टेलीफैक्स/Telefax: 011-25155551 • ई-मेल/E-mail: shivajicollege.ac@gmail.com • वेब/Website: www.shivajicollege.ac.in





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Photographs of Field Visit Report: Plant Tissue Culture Laboratory, University of  
Delhi





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## Department of Botany: DPSRU Visit on 24.6.2024

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संदर्भ सं० / Ref. No. SHC/20/1520/24

दिनांक/Dated 24/07/2024

**TO WHOM IT MAY CONCERN**

This is to certify that the below-mentioned 24 participants of the Summer Training Programme went on an educational field visit to the Delhi Pharmaceutical Sciences and Research University (DPSRU), Delhi on 24<sup>th</sup> June 2024 (Monday). The training programme entitled, 'Methods of Quality Control for Medicinal Herbs and Preparations' was organised by the Department of Botany, Shivaji College, University of Delhi under the aegis of the DBT Star College Scheme, from June 18-26, 2024. This visit allowed students to deepen their understanding of medicinal herbs, their cultivation, harvesting, storage, advanced techniques for phytochemical analyses, and the methods for making herbal formulations. It provided exposure to the procedures for checking the effect of herbal drugs on animal physiology and behaviour, and to the next-generation DNA sequencing technology. Dr Anurag Maurya and Dr Pawan Kumar were conveners of this visit.

S. No.	Participant's Name	Course	College Name**	S. No.	Participant's Name	Course	College Name**
1.	Aayush Kumar	B. Sc. (H) Biochemistry	SHC	13.	Uday	B. Sc. (Life Science)	SHC
2.	Prachi	B. Sc. (H) Biochemistry	SHC	14.	Anasha	B. Sc. (Life Science)	SHC
3.	Rishabh Singh	B. Sc. (H) Biochemistry	SHC	15.	Ankit	B. Sc. (Life Science)	SHC
4.	Vishesh kushwaha	B. Sc. (H) Biochemistry	SHC	16.	Anushka Gautam	B. Sc. (Life Science)	SHC
5.	Shubham	B. Sc. (H) Botany	SHC	17.	Kashish	B. Sc. (Life Science)	SHC
6.	Neha Pandey	B. Sc. (H) Botany	SHC	18.	Lucky	B. Sc. (Life Science)	SHC
7.	Aishwarya Yadav	B. Sc. (H) Botany	SHC	19.	Santosh Singh	B. Sc. (Life Science)	SHC
8.	Anjali	B. Sc. (H) Botany	SHC	20.	Simran	B. Sc. (Life Science)	SHC
9.	Ankit Kumar	B. Sc. (H) Botany	SHC	21.	Niharika Das	B.Sc. (H) Biomedical Science	BCAS
10.	Nitesh Singh	B. Sc. (H) Botany	SHC	22.	Jyotsna Chatterjee	B.Sc. (H) Biomedical Science	BCAS
11.	Omji Yadav	B. Sc. (H) Botany	SHC	23.	Sudheer Gautam	B.Sc. (H) Biomedical Science	BCAS
12.	Rakesh	B. Sc. (H) Botany	SHC	24.	Suhani Prasad	B.Sc. (H) Biomedical Science	BCAS

\*\* SHC = Shivaji College, University of Delhi; BCAS= Bhaskaracharya College of Applied Sciences, University of Delhi

**Prof. Virender Bhardwaj**  
Principal

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टेलीफैक्स/Telefax: 011-25155551 • ई-मेल/E-mail: shivajicollege.ac@gmail.com • वेब/Website : www.shivajicollege.ac.in





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(University of Delhi)



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Department of Zoology: Permission Letter to Sanjay Van Visit

To,  
The Principal  
Shivaji College  
University of Delhi  
Rajar Garden  
New Delhi - 110027

P/2357/23  
18/10/23

Date: 11/10/2023  
I discuss  
do as per last minutes  
19/10/23

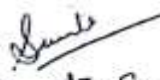
Subject: Grant of permission to visit Sanjay Van  
on 07/11/2023

Respected Sir,

With due respect, I, Prof. Sunita Gupta and Dr. Nidhi Garg, wish to state that the students of BSc. (Hons.) Zoology, Semester-I will be taken to Sanjay Van as part of Academic visit mentioned in the syllabus of the practical paper Concepts of Ecology (NEP). The date for visit is 07/11/2023 at 9.00am. The students will be reaching the venue on their own. All students will be submitting the duly signed consent form from their parents/guardian. The students will be accompanied by myself, Dr. Nidhi Garg and Dr. Rakesh Roshan.

Thanking You.

Yours faithfully,

  
Prof. Sunita Gupta  
(Teacher-in-charge)  
Department of Zoology  
Shivaji College






Department of Zoology: Report of Sanjay Van Visit

Event completion report - Visit Report on an Excursion to Biodiversity Park

Date of Visit: 07/11/2023  
Time: 09:00 A.M  
Venue: Sanjay Van (DDA City Van)  
Course: B.Sc. (H) Zoology NEP UGCF  
Semester I  
Subject: Concepts of Ecology  
Purpose of Visit: To understand, explore and observe the diversity of fauna and flora and the environment of Sanjay Van.  
Teacher Co-ordinator: Dr. Nidhi Garg and Dr Rakesh Roshan

The 25 students of B.Sc. (H) Zoology, Semester I, of Shivaji College, University of Delhi were accompanied by their teachers, Dr. Nidhi Garg, and Dr. Rakesh Roshan on a visit to Sanjay Van, a DDA city forest. The purpose of this visit was to provide students with firsthand exposure to a natural habitat and to enhance their understanding of biodiversity and ecological systems.



Google

GPS Map Camera

New Delhi, Delhi, India  
GEPJ+QXF B 22, unnamed Road, NRPO Colony, Block B, Qutab Institutional Area,  
New Delhi, Delhi 110016, India  
Lat 28.535744°  
Long 77.181497°  
07/11/23 11:14 AM GMT +05:30

Overview of Sanjay Van: Sanjay Van, located within the heart of the city, is a Delhi Development Authority (DDA) city forest that serves as a green lung. It encompasses a diverse range of flora and fauna, providing an oasis of nature amidst the urban landscape.

Activities and Observations: During the visit, students engaged in various activities, including guided nature walks, bird watching, and observation of plant and animal species. The

Nidhi  
(Dr. Nidhi Garg)

Sumit



# शिवजी कॉलेज

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### Department of Zoology: Attendance of Sanjay Van Visit

College name: Shivaji College  
Course Name: B.Sc. (Hons) Zoology  
Paper Name: Concepts of Ecology  
Semester: I  
Date of visit: 07.11.2023

Visit to Sanjay Van, New Delhi

S. No.	Examination Roll no.	Class Roll no.	Student's name	Student's Signature Morning	Student's Signature Evening	Student Feedback for the Concepts of Ecology Visit
1.	23071569002	23/22001	ABHIRAM S. VARIAR	<i>Abhiram</i>	<i>Abhiram</i>	Amazing experience !!!
2.	23071569004	23/22002	AMAN	Aman	Aman	wonderful
3.		23/22003	Ankit			ABSENT
4.	23071569009	23/22005	ARADHANA JHA	<i>Aradhana</i>	<i>Aradhana</i>	Good experience. learnt a lot about a flora.
5.		23/22011	Kamini Rathi	<i>Kamini</i>		ABSENT
6.	23071569014	23/22012	KRISHNA TIWARI	<i>Krishna</i>	<i>Krishna</i>	Amazing
7.		23/22014	KULDEEP			ABSENT
8.		23/22016	MILUM ANGU			ABSENT
9.	23071569023	23/22017	Naina Kumari	<i>Naina</i>	<i>Naina</i>	Nice experience
10.		23/22018	PAWAN GARHWAL			ABSENT
11.	23071569028	23/22019	Shagun singh	<i>Shagun</i>	<i>Shagun</i>	Nice experience
12.		23/22020	SHUBHAM KUMAR			ABSENT
13.	23071569035	23/22022	VIKASH KUMAR	<i>Vikash</i>	<i>Vikash</i>	Good

*Noted*  
7/11/2023  
*Ref*  
3/11/2023





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Contd..

S.No.	Examination Roll no.	Class Roll no.	Student's name	Student's Signature Morning	Student's Signature Evening	Student Feedback for the Sericulture Visit
14.		23/22024	Vishakha Garg	ABSENT		
15.	2307156906	23/22025	AAFREEN	ABSENT		
16.		23/22026	Ansh Pathak	ABSENT		
17.	2307156906	23/22027	ARCHANA SINGH KAUSHIK	ABSENT		Wonderful experience !!
18.	23071569011	23/22028	Daksh	ABSENT		good
19.		23/22029	Edrasia Dubey	ABSENT		
20.	23071569015	23/22030	Kim Mondal	ABSENT		Amazing experience
21.	23071569019	23/22030	MARIAM	ABSENT		Amazing
22.		23/22032	Mehak Sural	ABSENT		
23.	23071569020	23/22033	Nusrat Fatma	ABSENT		Outstanding.
24.	23071569022	23/22034	Priyanshi Kumari	ABSENT		Amazing experience.
25.		23/22024	SHEETAL	ABSENT		

Abdulla  
2/11/2023

Rajesh  
2/11/2023





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Contd..

38.	23071569026	23/22047	PREETI ANWANI	PNC	PNC	great wonderful experience with new concept with knowledge guide
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S. No.	Examination Roll no.	Class Roll no.	Student's name	Student's Signature Morning	Student's Signature Evening	Student Feedback for the Sericulture Visit
39.	23071569006	23/22048	AMIT KUMAR	<i>[Signature]</i>	<i>[Signature]</i>	Good.
40.		23/22049	ANJALI	ABSENT		
41.	23071569016	23/22050	KRATI YADAV	<i>[Signature]</i>	<i>[Signature]</i>	Beautiful nature
42.		23/22051	Kunal Sharma	ABSENT		
43.						
44.						

Total No. of Students present: 25

Nodine  
7/11/2023  
7/11/2023



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Department of Zoology: Permission Letter to visit RB Organic Poultry Farms

P/1512/24  
18/03/24  
A.O. + A.O. H.L.  
19/3/24  
Dated: 18/03/2024

To,  
The Principal  
Shivaji College  
University of Delhi  
Raja Garden  
New Delhi -110027

**Subject: Permission to visit RB Organic Poultry Farms Nizamuddin, New Delhi with the students of B.Sc. Zoology (H) IV & VI semester students as a part of their curriculum.**

Respected Sir,

We are organizing an educational field visit on 20<sup>th</sup> March 2024 (Wednesday) to RB Organic Poultry Farms Nizamuddin, New Delhi, for the students of B.Sc. Zoology (H) IV & VI semester students as part of the academic curriculum in the paper named-Developmental Biology. The students need to submit a report of their visit, which will be evaluated for their Internal Assessment. The students of B.Sc. Zoology (H) IV & VI semester along with few teachers from the Department of Zoology (Ms. Nimita Kant, Dr. Deepika Yadav & Dr. Ankita Dua) will accompany the students and will follow all the necessary code of conduct. The students are also asked to submit their parent's consent before the field visit. The students and teachers will directly reach the RB Organic Poultry Farms Nizamuddin, New Delhi by 9:30am. The complete lecture and poultry farm exploration will take around 2-3 hours. Proper attendance will be maintained for the visit along with the geo-tagged photos.

Kindly grant us the permission.

Thanking you

*Ms. Nimita Kant*  
Ms. Nimita Kant  
Associate Professor  
Dept. of. Zoology  
Shivaji college, D.U.

*Ankita Dua*  
Dr. Ankita Dua  
Assistant Professor  
Dept. of. Zoology  
Shivaji college, D.U.

*Deepika Yadav*  
Dr. Deepika Yadav  
Associate Professor  
Dept. of. Zoology  
Shivaji college, D.U.

*Forwarded*  
*Sunita*  
[Prof. Sunita Gupta]  
TIC  
Dept. of Zoology





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(दिल्ली विश्वविद्यालय)  
*Shivaji College*  
(University of Delhi)  
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Department of Zoology: Photographs of RB Organic Poultry Farms visit







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(दिल्ली विश्वविद्यालय)

## Shivaji College

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### Department of Zoology: Attendance of RB Organic Poultry Farms visit

**Shivaji College**  
UNIVERSITY OF DELHI  
ACCREDITED BY NAAC WITH 'A' GRADE

**ATTENDANCE & FEEDBACK SHEET**

NAME OF VISIT: RB Organic Poultry Farms Nizamuddin, New Delhi with the students of B.Sc. Zoology (H) IV & VI semester students as a part of their curriculum

DATE: March 20<sup>th</sup>, 2024

S.NO.	ROLL NO.	NAME OF STUDENT	COURSE	SEMESTER	ATTENDANCE SIGNATURES	FEEDBACK	
1	22/22023	Priyanshu Dhar	B.Sc (Hons) Zoology	2nd	[Signature]	How was your experience today?	Would you like to take part in such visits in future?
2	22/22024	Kishu Pop	B.Sc (Hons) Zoology	2nd	[Signature]	Great	Yes
3	22/22027	Suhasi	B.Sc (Hons) Zoology	2nd year	[Signature]	Amazing, I loved it	A Big Yes
4	22/22019	Siddhant K	B.Sc (Hons) Zoology	2nd year	[Signature]	Great	Yes
5	21/22014	Lakshay	B.Sc (Hons) Zoology	2nd year	[Signature]	Magnificent	Yes
6	21/22015	Suhasi	B.Sc (Hons) Zoology	2nd year	[Signature]	Excellent	Yes
7	21/22028	Hansh	B.Sc (Hons) Zoology	2nd year	[Signature]	Great	Yes
8	21/22061	Kamal	B.Sc (Hons) Zoology	2nd year	[Signature]	Informative	Yes
9	21/22067	Mihir	B.Sc (Hons) Zoology	2nd year	[Signature]	Very good experience	Yes
10	21/22003	Ashu	B.Sc (Hons) Zoology	3rd year	[Signature]	Good	Yes

[Signature] 20-03-2024      [Signature] 20-3-2024      [Signature] 20th March 2024

S.NO.	ROLL NO.	NAME OF STUDENT	COURSE	SEMESTER	ATTENDANCE SIGNATURES	FEEDBACK	
1	21/22061	Kamal	B.Sc (Hons) Zoology	VII <sup>th</sup>	[Signature]	How was your experience today?	Would you like to take part in such visits in future?
2	21/22067	Himanshu	B.Sc (Hons) Zoology	VII <sup>th</sup>	[Signature]	Great	Yes
3	21/22064	Lakshya Choudhary	B.Sc (Hons) Zoology	VII <sup>th</sup>	[Signature]	Great	Yes
4	21/22014	Shivam Bhat	B.Sc (Hons) Zoology	VII <sup>th</sup>	[Signature]	Very informative visit	Yes
5	21/22039	Prerna	B.Sc (Hons) Zoology	VII <sup>th</sup>	[Signature]	Great	Yes
6	21/22048	Anchal	B.Sc (Hons) Zoology	VII <sup>th</sup>	[Signature]	Great	Yes
7	21/22069	Rishi Talwar	B.Sc (Hons) Zoology	VII <sup>th</sup>	[Signature]	Great	Yes
8	21/22055	Suhasi	B.Sc (Hons) Zoology	VII <sup>th</sup>	[Signature]	Informative	Yes
9	21/22043	Natasha Shree	B.Sc (Hons) Zoology	VII <sup>th</sup>	[Signature]	Amazing	Yes

[Signature] 20-03-2024      [Signature] 20-3-2024      [Signature] 20th March 2024



शिवाजी कॉलेज  
(दिल्ली विश्वविद्यालय)  
Shivaji College  
(University of Delhi)  
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Department of Zoology: Permission Letter to visit National Zoological Park

P/1943/24  
09/04/24  
Date: 09/04/24  
A.O. A.C.  
P. S. S.  
10/4/24

The Principal,  
Shivaji College  
University of Delhi  
Raja Garden  
New Delhi - 110027

Subject: Permission for educational visit to Delhi Zoological Park for observation of wild animals and their behaviour for B.Sc(H) Zoology semester IV and VI as per their syllabus.

Respected Sir,

As per the syllabus of B.Sc(H) Zoology semester VI (Wild life conservation and Management) and semester IV (Animal Behaviour) the students need to visit Delhi Zoological to observe wild animals and their behaviour and submit a report. We want to plan a trip to the Zoo on 15<sup>th</sup> April, 2024 and will be accompanied by Dr. Aeshna Nigam, Dr. Rakesh Roshan and Dr. Saumya Das. No financial assistance to be availed from college. We will be obliged if you grant us permission for the trip.

Thanking You.  
Yours sincerely,  
Aeshna Nigam  
[DR. AESHNA NIGAM] [DR. RAKESH ROSHAN] [DR. SAUMYA DAS]

forwarded  
Sunita  
[Prof. Sunita Gupta]  
TIC  
Saumya Das  
No financial assistance to be availed from college. We will be obliged if you grant us permission for the trip.  
10/4/24





## Department of Zoology: Report of National Zoological Park Visit

### Report on visit to Zoological Park

#### Visit to National Zoological Park B.Sc.(H) Zoology Semester IV Animal Behaviour

The students of B.Sc. (H) Zoology semester IV of Shivaji College, University of Delhi along with teachers Dr. Aeshna Nigam and Dr. Rakesh Roshan and Dr. Samya Das went for an educational tour to National Zoological Park, New Delhi on 15.4.2024. The visit was a part of the curriculum of the paper Animal Behaviour. This was an exercise which helped students to practically observe the behavioral changes observed due to animals held captive. Captivity tends to dull the instincts of the animals which are very important for survival in the wild. The animals in zoo are provided with food daily at the same time so there was no competition or exhibition of predator prey interaction. Moreover, since single or two members of a species were kept together social behavior was not apparent. Understanding the behavior also helps in conservation efforts specifically for breeding and propagation of endangered animals. Few of the animals observed were crocodile, gharial, hooting monkey, white tiger, lion, Asiatic and African elephants, black swan, peacock, silver pheasant and many more. Since it was summer so the snakes were out of hibernation and they observed python, Indian cobra and others.



Aeshna Nigam



Department of Zoology: Attendance of National Zoological Park Visit

**Shivaji College**  
(University of Delhi)  
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**ATTENDANCE and FEEDBACK FORM**

**TITLE OF THE EVENT:** Visit to Delhi Zoological Park

**DATE OF THE EVENT:** 14.4. 2024

**NAME OF THE DEPARTMENT:** Zoology (B.Sc. H Zoology, Semester IV)

**NAME OF THE EVENT COORDINATOR:** Dr. Aashna Nigam

S.NO	STUDENT NAME	ROLL NO.	Attendance (Signature)	FEEDBACK
✓1	Nidhee kumari	22/22011	Nidheesingh	learned a lot, great experience. Nidheesingh
✓2	Piyarajan	22/22023	Piyarajan	Trip was really beautiful, learned a lot about animals
✓3	Souali	22/22017	Souali	Excellent visit, learn a lot about animals
✓4	Vivek Singh	22/22019	Vivek Singh	Learned more about animals behavior
✓5	Huskan Gupta	22/22033	Huskan	Knowledgeable and informative trip. Excellent experience
✓6	Sakshi Kataria	22/22031	Sakshi	Informative trip, Saheli
✓7	Sonam Singh	22/22034	Sonam	Very serene environment. Informative trip. Sonam
✓8	Swarnika	22/22018	Swarnika	It is informative to know the behavior of animals

Teachers' Signature: *[Signature]*

(4)





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**Shivaji College**  
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22/22024

22/22004

22/22005

22/22032

22/22006

Sl. No.	Name of the Teacher	Date	Remarks	Signature
9.	Purvi Garg	22/22024		
10.	Bhanka Yadav	22/22004		
11.	Pratibha	22/22005	Good	
12.	Tushar Garg	22/22032	It was a great experience	
13.	Harchal Gupta	22/22006	Amazing	
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				

Teachers' Signature

*[Signature]*

*[Signature]*



**शिवाजी कॉलेज**  
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**Department of Zoology: Permission Letter for Visit**

To P/4833/4 06/11/24 Dr. G. P. Singh

The Principal,  
Shivaji College, Delhi University  
Raja Garden, New Delhi - 110027.

Sub: Requesting you for students field study.

Respected Sir,

We wish to draw your kind attention for allowing 7th Sem DSE Students to visit IARI, New Delhi - 110012 on 11th of November 2024. As for practical fulfillment of their practical paper Biology of Insect these students have to visit some Entomology Division or Department to know about the Insect Diversity so that they can submit the report at their practical class. We are not claiming any allowance for this visit.

Thanking you

Yours Sincerely  
Dr. Anand Kumar Dhillon  
Dr. Sangeeta Das  
(Study Tour Co-ordinators)

N.B: Parents/Guardians Consent has received.

List of students & Syllabus attached

Forwarded  
Prof. Deepika Yadav  
Prof. Deepika Yadav  
T.E.C.  
Department of Zoology





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Department of Zoology: Report of National Zoological Park Visit

Visit to National Zoological Park  
B.Sc.(H) Zoology: Semester VI  
Wildlife Conservation and Management (VI sem\_LOCF\_ZH-DSC-11)

The students of B.Sc. (H) Zoology semester V of Shivaji College, University of Delhi along with teachers Dr. Aeshna Nigam and Dr. Rakesh Roshan and Dr. Samya Das went for an educational tour to National Zoological Park, New Delhi on 15.4.2024. The visit was a part of the curriculum of the paper Wildlife conservation and management (VI Sem\_LOCF\_ZH-DSC-11). This was an exercise which helped students to practically observe and Identification of mammalian fauna, avian fauna, herpeto-fauna through direct evidences due to animals held captive. Few of the animals observed were crocodile, gharial, hooting monkey, white tiger, leopard lion, Asiatic and African elephants, black swan, peacock, silver pheasant and many more. Since it was summer so the snakes were out of hibernation and they observed python, Indian cobra and others. Captivity tends to dull the instincts of the animals which are very important for survival in the wild. The animals in zoological park are provided with food daily at the same time so there was no competition or exhibition of predator prey interaction. Understanding the behavior also helps in conservation efforts specifically for breeding and propagation of endangered animals.



*Rakesh*  
Dr. Rakesh Roshan  
Assistant Professor  
Dept. of Zoology

*Samya Das*  
Dr. Samya Das  
Assistant Professor  
Dept. of Zoology



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### Department of Zoology: Attendance of National Zoological Park Visit

Shivaji college, University of Delhi  
Date, time and Place of visit: 15.04.2024; 9.00 A.M./ National Zoological park, Delhi  
Class: BSc Zoology (Hons) Semester VI  
Wildlife conservation and management, IODS\_ZH  
Visited By: Dr. Rakesh Roshan and Dr. Sanyu Das

Sl. No/Roll. No	Student Name	Entry (time and Signature)	Exit (time and Signature)	Students remark
1. 21122014	Priya Talwar	[Signature]	[Signature]	Good and interesting
2. 21122015	Ashika	[Signature]	[Signature]	Interesting
3. 21122016	Swaraj	[Signature]	[Signature]	Good and interesting
4. 21122017	Rimande	[Signature]	[Signature]	Good and interesting
5. 21122018	Ashika	[Signature]	[Signature]	Good and interesting
6. 21122019	Ashika	[Signature]	[Signature]	Good and interesting
7. 21122020	Srinivas	[Signature]	[Signature]	Good and interesting
8. 21122021	Arjun	[Signature]	[Signature]	Good and interesting
9. 21122022	Rahul	[Signature]	[Signature]	Good and interesting
10. 21122023	Rahul	[Signature]	[Signature]	Good and interesting
11. 21122024	Rahul	[Signature]	[Signature]	Good and interesting
12. 21122025	Rahul	[Signature]	[Signature]	Good and interesting
13. 21122026	Rahul	[Signature]	[Signature]	Good and interesting
14. 21122027	Rahul	[Signature]	[Signature]	Good and interesting
15. 21122028	Rahul	[Signature]	[Signature]	Good and interesting
16. 21122029	Rahul	[Signature]	[Signature]	Good and interesting
17. 21122030	Rahul	[Signature]	[Signature]	Good and interesting
18. 21122031	Rahul	[Signature]	[Signature]	Good and interesting
19. 21122032	Rahul	[Signature]	[Signature]	Good and interesting
20. 21122033	Rahul	[Signature]	[Signature]	Good and interesting
21. 21122034	Rahul	[Signature]	[Signature]	Good and interesting
22. 21122035	Rahul	[Signature]	[Signature]	Good and interesting
23.				
24.				
25.				
26.				
27.				





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Department of Zoology: Permission Letter for ICMR

To,

The Principal  
Shivaji College  
University of Delhi  
Raja Garden  
New Delhi -110027

Dated: 15/04/2024

Subject: Permission to visit ICMR-National Institute of Malaria Research with the students of Sem (H) IV semester students as a part of their curriculum

Respected Sir,

We are organizing an educational field visit on 18<sup>th</sup> April 2024 (Thursday) to ICMR-National Institute of Malaria Research, Sector-8, Dwarka, New Delhi, for the students of IV semester students as part of the academic curriculum in the paper named - Parasitology (ZOO-DSE-8) to study the natural history and diagnostics of parasites. The students need to submit a report of their visit, which will be evaluated for their Internal Assessment.

The students of B.Sc. (H) Zoology & B.Sc. (P) Life Sciences semester IV along with two teachers from the Department of Zoology (Mr. Manish K. Sachdeva & Dr. Ankita Dua) will accompany the students and will follow all the necessary code of conduct.

The students are also asked to submit their parent's consent before the visit. The students and teachers will directly reach the ICMR-National Institute of Malaria Research, Sector 8, Dwarka. The complete visit will take around 2-3 hours. Proper attendance will be maintained for the visit along with the geo-tagged photos. *No financial assistance is required from the college for the visit.*

Kindly grant us the permission.

Thanking you

*M Sachdeva*  
15/4/2024  
Mr. Manish K. Sachdeva  
Associate Professor  
Department of Zoology  
Shivaji college, D.U.

*Ankita Dua*  
Dr. Ankita Dua  
Assistant Professor  
Department of Zoology  
Shivaji college, D.U.

*Forwarded*  
*Shanku*  
Prof. Anita Gupta  
T.T.C.



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## Department of Zoology: Photographs of ICMR Visit







# शिवजी कॉलेज

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### Department of Zoology: Attendance of ICMR Visit



**Shivaji College**

UNIVERSITY OF DELHI  
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#### ATTENDANCE & FEEDBACK SHEET

NAME OF VISIT: ICMR-National Institute of Malaria Research, Dwarka, New Delhi with the students of B.Sc. Zoology (H) & B.Sc. (P) Life Sciences Semester IV students as a part of their curriculum

DATE: April 18<sup>th</sup>, 2024

S.NO.	ROLL NO.	NAME OF STUDENT	COURSE	SEMESTER	ATTENDANCE SIGNATURES	FEEDBACK
1.	22/23048	Nidhi Mahto	Bsc-Life Sciences	IV	Nidhi	How was your experience today? Really a nice experience. Would you like to take part in such visits in future? Yes, of course.
2.	22/23066	Sajan Kr.	B.Sc Life sci	IV	Sajan	Very informative and knowledgeable. Yes, of course.
3.	22/23097	Aditya Ranjan	B.Sc Life sci	IV	Aditya	Nice, great. Yes.
4.	22/23024	Badal Kumar	B.Sc Life Sci	IV	Badal	Nice experience. Yes.
5.	22/23021	Aryon Swain	B.Sc Life Sci	IV	Aryon	Very Informative. Yes, Why not.
6.	22/25035	Jashika Sinha	Bsc life sci.	IV	Jashika	New research on an opportunity to explore and discover new things. Very informative job. Yes.
7.	22/23019	Vivek Singh	B.Sc (H) Zoology	IV	Vivek Singh	Very informative job. Yes.
8.	22/23017	Conali	B.Sc (H) Zoology	IV	Conali	Science used to solve a problem without creating more. A big yes.
9.	22/22011	Nidhee Kumari	B.Sc (H) Zoology	IV	Nidhee	Had a great insight on malaria, very informative. Yes.
10.	22/23018	Amushka Sharma	Bsc life science	IV	Amushka	Nice. Yes.

Anurag  
18.4.2024

Msacharya  
18<sup>th</sup> April 2024

S.NO.	ROLL NO.	NAME OF STUDENT	COURSE	SEMESTER	ATTENDANCE SIGNATURES	FEEDBACK
11.	22/23091	Jyoti Tiwari	B.Sc Life sci	IV	Jyoti Tiwari	How was your experience today? Really a great experience. Would you like to take part in such visits in future? Yes, why not.
12.	22/23013	Anjali Chaudhary	B.Sc Life Sci	IV	Anjali	Informative. Yes.
13.	22/23034	Sanku Rathore	B.Sc Life Sci	IV	Sanku	
14.	22/22051	Saheli Kantam	B.Sc (H) Zoology	IV	Saheli	Informative trip. Yes.
15.	22/23098	Valshruti Bhandari	B.Sc (P) Life Science	IV	Valshruti	Knowledge exposure, highly informative. Yes, of course, very informative.
16.	22/23010	Saurabh Pandey	"	IV	Saurabh	Informative trip. Yes.
17.	22/23086	Yash Kumar Sharma	"	IV	Yash	Very informative and nice trip. Yes.
18.	22/23070	Shivam Mishra	B.Sc (P) Life Science	IV	Shivam	Detailed explanation, observation, very informative. Yes.
19.	22/23075	Rishav Singh Dehury	B.Sc (Hons) Zoology	IV	Rishav	Very educational trip. Yes, it was amazing.
20.	22/23079	Affeen Anjum	"	IV	Affeen	Informative & new knowledge. Yes.
21.	22/23018	Sooraj	"	IV	Sooraj	Very educational & new knowledge. Yes, always.

Anurag  
18.4.2024

Msacharya  
18<sup>th</sup> April 2024



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Contd..

S.NO.	ROLL NO.	NAME OF STUDENT	COURSE	SEMESTER	ATTENDANCE SIGNATURES	FEEDBACK	
						How was your experience today?	Would you like to take part in such visits in future?
22.	22/23009	Aditya Kr. Sharma	B.Sc Life Science	IV	<i>Aditya</i>	OKAY	YES
23.	22/23043	M. Saikumar	B.Sc Life science	IV	<i>Saikumar</i>	Very Informative and got more kind of knowledge	Yes
24.	22/23036	Jatin	B.Sc Life Science	IV	<i>Jatin</i>	Very informative & highly appreciated	Yes
25.	22/23064	Rohit	B.Sc Life science	IV	<i>Rohit</i>	Informative experience	Yes
26.	22/23007	Abhishhek keshav	B.Sc Life science	IV	<i>Abhishek</i>	Informative & Very nice experience	Absolutely yes
27.	22/23001	Aakanksha	BSC "	IV	<i>Aakanksha</i>	Great	Yes
28.	22/23012	Ammey Afza	"	"	<i>Ammey Afza</i>	Informative	Yes
29.	22/23030	Humair Ansari	"		<i>Humair</i>	Nice	Yes
30.	22/23029	Hansa Azmi	"		<i>Hansa</i>	very good we gain good knowledge	Yes
31.	22/23011	Ambhuj	"		<i>Ambhuj</i>	Very Informative	Yes
32.	22/23004	Aayushman	"		<i>Aayush</i>	Overall experience was good & Knowledgeable	YES
33.	22/23020	Arifa Das			<i>Arifa</i>	It is very worth it. We gained immense knowledge	Yes
34.	22/23045	Masreen			<i>Masreen</i>	It was a good experience that we got to know about many things	Yes
35.	22/23037	Jitendra			<i>Jitendra</i>	It was a very interesting & informative visit	Yes
36.	22/23009	Aashi			<i>Aashi</i>	Very informative, intriguing & knowledgeable visit	Yes, for sure!
37.	22/23032	Ishanika Patwari	"	"	<i>Ishanika</i>	Great	Yes, for sure

*Anulapam*  
11.4.2024

*Masreen*  
18/04/2024





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Department of Life Sciences: Permission Letter for ANDC Visit

To, P/9578/23  
The Principal 19/10/23 Date: 19/10/2023  
Shivaji College  
University of Delhi  
Raja Garden  
New Delhi-110027

Subject: Request for grant of permission  
to visit Acharya Narendra Dev College  
on 21.10.2023.

Respected Sir,

I, Dr. Nidhi Garg, Assistant Professor in the Department of Zoology wish to state with due respect that the students of BSc. Life Sciences, Semester II have to be taken to Acharya Narendra Dev College on 21.10.2023 at 11.00 am as part of Academic visit for the practical paper of Sericulture. The students will be reaching the college on their own. The consent letter for the visit duly signed by their parent/guardian will be provided by the students.

Thanking You.

Yours faithfully,  
Nidhi

(Dr. Nidhi Garg)  
Assistant Professor  
Department of Zoology  
Shivaji College

Forwarded  
Dr. Deepika Yadav  
19/10/2023.  
(Dr. Deepika Yadav)  
T.I.C.  
Life Sciences



## Department of Life Sciences: Report of ANDC Visit

Event Completion Report- Visit to Sericulture Research Centre of Acharya Narendra Dev College

Date: 21<sup>st</sup> October 2023

Time: 11:00 A.M

Institute: Acharya Narendra Dev College, University of Delhi, Govindpuri, Kalkaji, New Delhi 110019

Course: B.Sc (P) Life Sciences

Subject: Sericulture (SEC)

Teacher Co-ordinator: Dr. Nidhi Garg

The 27 students of B.Sc. (P) Life Sciences of Semester V of Shivaji College, University of Delhi had visited Acharya Narendra Dev College, Seri-Lab on October 21<sup>st</sup> 2023 at 11 a.m. This visit was a part of their practical syllabus and all students prepared a detailed report on the same. The students were accompanied by their teacher: Dr. Nidhi Garg



At the Acharya Narendra Dev College, students were given a brief history of Sericulture including its discovery, the silk route, different varieties of silk that are produced by different silk moths which includes Mulberry silk and Vanya silk by Dr. Sushma Bharadwaj. Later they were taken to the indigenous mulberry garden of the college where they were shown to grow the S-146 variety of Mulberry from cutting, under the guidance of Dr. Sanjay Vohra, students were also taught how to pluck different sizes of leaves for different instar larvae, chopping and storing of leaves were also shown. After that the students visited the Sericulture lab where there were shown the life cycle of Mulberry silkworm (Egg, Larva, Pupa & Adult) with different instars of larvae (1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup>, 4<sup>th</sup> & 5<sup>th</sup> instar), moulting of larvae, mounting of the larvae, boiling & reeling of cocoons. Cocoons of 4 different silk moths were also shown which were, Mulberry cocoons (Bivoltine & Multivoltine), Taser Cocoons (which were pedunculate), Eri cocoons (contribute in Ahimsa silk production), and Muga silk (having a unique coarse texture). The information of disease infestation and their control methods, mechanization, uses of disinfectants, and features of rearing house were also discussed.

*Nidhi*  
(Dr. Nidhi Garg)

*Sapika Yadav*





Department of Life Sciences: Photographs of ANDC Visit





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## Department of Life Sciences: Attendance of ANDC Visit

College name: Shivaji College  
Course Name: B.Sc. Life Sciences  
Paper Name: Sericulture  
Semester: V  
Date of visit: 21.10.2023

Visit to Acharya Narendra Dev College (UNIV. OF DELHI)

S. No.	Examination Roll no.	Class Roll no.	Student's name	Student's Signature Morning	Student's Signature Evening	Student Feedback for the Sericulture Visit
1.	20071583001	21/23209	Aakash Jha	ABSENT		
2.	20071583002	21/23140	Ajay Chaudhan	ABSENT		Nice and informative
3.	20071583004	21/23074	Akshara Sharma	ABSENT		
4.	20071583006	21/23024	Ananya Tiwari	ABSENT		
5.	20071583008	21/23078	Anisha Chakravorty	ABSENT		
6.	20071583009	21/23070	Anjali Singh	ABSENT		
7.	20071583010	21/23185	Ankit Kumar	ABSENT		
8.	20071583013	21/23099	Arshat Dakech	ABSENT		
9.	20071583023	21/23129	Divisha	ABSENT		
10.	20071583024	21/23152	Eldes Dolma	ABSENT		
11.	20071583025	21/23062	Erin Tyagi	ABSENT		
12.	20071583026	21/23204	Garv Yadav	ABSENT		
13.	20071583027	21/23169	Gungun	ABSENT		Had a nice experience.

21/10/2023





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*Shivaji College*  
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S.No.	Examination Roll no.	Class Roll no.	Student's name	Student's Signature Morning	Student's Signature Evening	Student Feedback for the Sericulture Visit
14.	20071583028	21/23034	Gungun Garg	<i>Gungun</i>	<i>Gungun</i>	It was great visit and experience full.
15.	20071583034	21/23202	Himanshu	<i>Himanshu</i>	<i>Himanshu</i>	very help.
16.	20071583038	21/23080	Pratik Kalia	<i>Pratik</i>	<i>Pratik</i>	Very helpful and good about.
17.	20071583039	21/23098	Jyoti Singh	<i>Jyoti</i>	<i>Jyoti</i>	very helpful
18.	20071583045	21/23121	Krushika	<i>Krushika</i>	<i>Krushika</i>	It was very knowledgeable visit
19.	20071583046	21/23053	Krushika Kumari	<i>Krushika</i>	<i>Krushika</i>	It was great experience.
20.	20071583047	21/23024	Komal	<i>Komal</i>	<i>Komal</i>	Nice experience.
21.	20071583050	21/23100	Lavanya Gupta	<i>Lavanya</i>	<i>Lavanya</i>	ABSENT
22.	20071583061	21/23135	Nikhita Thapliyal	<i>Nikhita</i>	<i>Nikhita</i>	ABSENT
23.	20071583063	21/23116	Nikhita Yadav	<i>Nikhita</i>	<i>Nikhita</i>	significant experience
24.	20071583067	21/23207	Mur Mohammad Rajan Shiekh	<i>Mur Mohammad Rajan Shiekh</i>	<i>Mur Mohammad Rajan Shiekh</i>	ABSENT
25.	20071583070	21/23015	Prema	<i>Prema</i>	<i>Prema</i>	like and informative

*Nidhi*  
21/10/2023



**शिवाजी कॉलेज**  
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S.No.	Examination Roll no.	Class Roll no.	Student's name	Student's Signature Morning	Student's Signature Evening	Student Feedback for the Sericulture Visit
26.	21071583071	21/23191	Prince Bhadana	<i>Prince</i>	<i>Prince</i>	This is very informative and interesting.
27.	21071583072	21/23036	Priya	<i>Priya</i>	<i>Priya</i>	
28.	21071583073	21/23156	Priyanka Yadav	<i>Priyanka</i>	<i>Priyanka</i>	It was great and informative visit.
29.	21071583074		Priyanka	<i>Priyanka</i>	<i>Priyanka</i>	
30.	21071583075	21/23199	Purnima Maurya	<i>Purnima</i>	<i>Purnima</i>	
31.	21071583077	21/23178	Rishi Pandey	<i>Rishi</i>	<i>Rishi</i>	It was a very helpful session in understanding the process of sericulture.
32.	21071583078	21/23206	Ritika Dewan	<i>Ritika</i>	<i>Ritika</i>	very helpful & informative visit
33.	21071583081	21/23149	Riya Kumari	<i>Riya</i>	<i>Riya</i>	
34.	21071583087	21/23138	Shrut Mishra	<i>Shrut</i>	<i>Shrut</i>	Very interesting & informative.
35.	21071583090	21/23013	Soumya Kushwaha	<i>Soumya</i>	<i>Soumya</i>	
36.	21071583091	21/23184	Stanzin Diskit	<i>Stanzin</i>	<i>Stanzin</i>	It was very great and informative visit including and informative.
37.	21071583092	21/23063	Susmita Chetry	<i>Susmita</i>	<i>Susmita</i>	

*Nidhi*  
21/10/2022





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38.	21071583093	21/23133	Tanishka Dhiran			
S. No.	Examination Roll no.	Class Roll no.	Student's name	Student's Signature Morning	Student's Signature Evening	Student Feedback for the Sericulture Visit
39.	21071583095	21/23079	Tanya Chauhan	ABSENT		
40.	21071583096	21/23176	Tundup Lamo	Klamo	Klamo	Buodrom experienced
41.	21071583099	21/23203	Yamini	Yamini	Yamini	It was very informative visit
42.	21071583100	21/23006	Yanshi Pal	ABSENT		
43.	21071583104	21/23193	Yogesh Singh Gusain	ABSENT		
44.	21071583105	21/23190	Zahira Tabassum	ABSENT		Happy
45.	21071583107	21/23045	Abhinav Srivastava	ABSENT		
46.		21/23014	Samirjeet Singh	ABSENT		It was informative
47.						had fun.
48.						
49.						
50.						

• 27 students.

Nidha  
21/10/2023



**Department of Life Sciences: Report on Sanjay Van Visit**

**VISIT REPORT ON AN EXCURSION TO BIODIVERSITY PARK**

**Subject:** Submission of a Report of Sanjay Van visit scheduled on 07, November 2023.

**Date of Visit:** 07.11.2023

**Purpose of visit:** To understand, explore and acquire knowledge of diversity of animal fauna in Biodiversity Park.

**Course:** BSc. Life Sciences, NEP UGCF

**Semester:** I

**Paper:** Diversity of Animals

Department of Zoology organized a Sanjay Van visit on 07-11-2023 at 9 am for B.Sc. Life Sciences NEP UGCF, Semester I as on account of academic practical syllabus of the paper Diversity of Animals.

This visit is the part of the syllabus to understand and gain knowledge of diversity of animals.

Sanjay Van is a biggest forest area which is located in South Delhi near Vasant Kunj. It is a densely wooded forest which is home to a rich wildlife. Stretching over 3 sq. km of area, this is home to several avifauna species and diverse varieties of trees. It also includes invertebrates, Pila, insects, and several species of butterflies etc., Eurasian golden oriole, purple sunbird, Asian koel, Peacock, ducks, Brahminy starling, Indian silverbill, white-throated kingfisher, grey-breasted prinia, crested honey buzzard, rufous treepie, and Indian paradise flycatcher etc., the forest also conserves habitat for jackals, nilgais, diverse species of snakes etc.

This visit was attended by 93 students of practical batches 1, 2, 3, and 4 of B.Sc. Life Sciences, Semester I with the concerned teachers- Dr. Neetu Singh, Dr. Kulbhushan Thakur and Dr. Meghali Bharti, who guided and assisted the students throughout this visit.

**Learning Outcome-**

From this excursion, the students were able -

1. To observe and understand the diversity of fauna species
2. To identify various invertebrate and vertebrate animals based on characteristic features
3. To understand the economic importance of non-chordates and chordates and their importance in the ecosystem.





## Department of Life Sciences: Attendance and Feedback of Sanjay Van Visit

### FEEDBACK OF SANJAY VAN VISIT BY STUDENTS

Timestamp	FULL NAME OF STUDENT	ROLL NO.	SEMESTER, BATCH AND COURSE	E-MAIL-ID:	MOBILE NO.	What is your take away from this visit? please specify your learning outcome?
11-7-2023 13:41:53	Sachin Kumar	23/23043	1st B1 life science	sachinkumar.as470@gmail.com	6202117324	Explored the biodiversity
11-7-2023 13:45:57	Somya	23/23058	Semester - 1, Batch - B2, Course - Bsc. Life sciences	somyrohi12@gmail.com	7838880465	It was fun. I learned a lot about flora and fauna.
11-7-2023 14:30:05	Rinku	23/23039	1st sem, B1 batch and bsc life science	rinkudhull88964435@gmail.com	9813545502	There were different species of plants and some animals were also the
11-7-2023 14:33:37	Prachi Saini	23/23037	1st sem Batch B1 Bsc life sciences	jmdprachisaini@gmail.com	8448502299	I got to see a lot of plants and different types of animals.
11-7-2023 16:09:48	Mayank Madhukar	23/23030	B.Sc. Life science	Mayankmadhukar20@gmail.com	7732880039	Identify different types of fauna
11-7-2023 16:13:25	Manoj Gupta	23/23080	1st, B2 And Bsc. (Prog.) Life Science	manojguptarollno@gmail.com	9891239113	This Visit was very helpful for me to reach out many kinds of flora and fauna.
11-7-2023 17:25:29	Akanksha Singh	23/23133	Semester - 1, section - b and course - life science	singhskavya123@gmail.com	7348754164	Pleasant environment, greenery everywhere, variety of trees and mammals.
11-7-2023 17:33:23	Rohit	23/23041	Semester 1, B1 and Bsc Life science	rohit.chaudhary.244245@gmail.com	9999203051	The jungle is so huge in area and lots of flora fauna found and only some kind of insects and animals found but in my observation I only found flora greenery is very good
11-7-2023 17:39:34	Shashwati Roy	23/23046	1st, B2, Bsc Life science	shashwati.roy@gmail.com	9850826101	I got learn about different flora and fauna.
11-7-2023 17:42:06	Santosh Singh	23/23044	1st, B1, Bsc Life science	singhsantosh0309@gmail.com	9891390947	Explored many type of species like Lantana Flower, Orthetrum prunosum, and type of species.
11-7-2023 17:51:42	Roshni kumari	23/23042	First semester B1 bsc life	roshnik215@gmail.com	9110038178	Saw different kind of flora all though fauna was hardly there overall an average experience with limited learning.
11-7-2023 17:54:53	Amisha yadav	23/23005	Semester 1 batch B1	amishayadav9585@gmail.com	9825635525	About different species of animals and plants ...
11-7-2023 17:56:10	Amisha yadav	23/23005	Semester 1 and batch B1	amishayadav9585@gmail.com	9825635525	
11-7-2023 18:06:18	Kartikay Jangra	23/23020	Semester -1, batch - b1, course - bsc life science	jangrakartikay24@gmail.com	9266210488	Learn about flora and fauna, plant diversity
11-7-2023 18:11:44	KHUSHI	23/23024	BSC LIFE SCIENCES, 1 YEAR, 1 SEMESTER	Khushigupta6306649834@gmail.com	9306646834	THIS Visit helped me to gain knowledge about flora and fauna and it was an amazing trip
11-7-2023 18:30:48	Harsh kumar	23/23017	Bsc life science, 1st yr, 1st sem	harsh052233@gmail.com	8700906965	Explores the diverse flora and fauna there .....got more close to nature, this place was calming
11-7-2023 18:36:42	Himesh kumar	23/23018	1,B1, bsc. Life science	himeshshineshikumar.p@gmail.com	8851828172	
11-7-2023 18:37:31	Neeraj Kumar Verma	23/23033	1(B1), B.Sc Life Sciences	neerajnk12@gmail.com	9984360675	Learned about different species of flora and fauna.

11-7-2023 18:38:55	Ankit	23/23007	Sem 1, Batch B1, BSC life sciences	ankitshakyacry@gmail.com	9315822882	It was really quite amazing, I'm looking forward for more of such visits
11-7-2023 18:45:12	Anushkaa gautam	23/23009	1, B1, bsc life science	anushkagautam582@gmail.com	8368665592	
11-7-2023 18:54:54	Mani Dhawan	23/22028	1st semester B1 batch life science	manidhawan001@gmail.com	9990229907	got to know more about the different flora and fauna present there
11-7-2023 19:25:45	Kashish	23/23021	Sem-1, B-1, bsc life sciences	kashishjangra2525@gmail.com	7982997468	Through our educational visit to Sanjay Van, I gained a deeper understanding of biodiversity and ecological conservation. Witnessing diverse flora and fauna firsthand, I learned the importance of preserving natural habitats and the impact of human actions on the environment, fostering a sense of environmental responsibility.
11-7-2023 19:28:53	Shikha Singh	23/23048	1st B2, Bsc life science	shikhasingh08.2005@gmail.com	8958489550	Seeing different type of species and plants
11-7-2023 19:30:01	Ritik	23/23040	1, B1 and life science	ritikboyat84@gmail.com	9718365286	
11-7-2023 19:37:32	Garima	23/23016	1	singhgarima2309@gmail.com	7665396469	Visit was too good. Saw many things. Environment was awesome.
11-7-2023 19:59:43	Anshika Rawat	23/23008	Semester 1, Batch- B1, course - Bsc life sciences	anshuneelam611@gmail.com	7880010720	It's an amazing experience, we gain many practical knowledge. We saw habitat of animals and the way they are living.
11-7-2023 20:06:20	bishal raj	23/23012	first year	rajbishal535@gmail.com	6203060367	about different species of plants ..
11-7-2023 20:18:36	Simran Yadav	23/23054	Sem-1, batch-b2, course- bsc Life sci	simranyadav9306@gmail.com	9306025766	Saw forest habitat and various habitat coming under this... Related animal and plant species. It was nice visiting there.
11-7-2023 20:24:05	Keshav	23/23022	Bsc life sciences 1st year sec A bech 1	Keshavamadhre82@gmail.com	8920692727	Think about what students should be able to know or do upon successful completion of the course
11-7-2023 22:07:15	Piyush Ranjan	23/23085	Bsc Life science 1st semester	piyushranjan877@gmail.com	9006888088	Broadens my views on biodiversity and its aspects.
11-7-2023 22:13:07	Lucky	130	1, B4 and Bsc life Science	Lakshay2618@gmail.com	9540909349	I only see about duck's
11-7-2023 22:37:48	Anjali Kumari	23/23105	1st, B3 and Bsc.(prog.) Life Sciences	anjalikumari23120@gmail.com	9958598671	This visit was a really incredible chance to explore the diverse flora and fauna which usually is not easy to find these days. It was a good way to reconnect with nature and admire its beauty and the different behavioural patterns of animals helped us to study about them.
11-7-2023 22:58:59	Parul Baisla	23/23135	1, B4, B.Sc Life science	tajenderbaisla8@gmail.com	9311428366	It was good but not as much zoological that things can be we probably able to see some ecosystems



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						worms etc....
						Overall it was good.....
11-7-2023 23:20:25	Neha Kumari	23/23081	1.B2,Bsc Life Science	nehasinghcutie2002@gmail.com	9043619943	We have explored biodiversity of Sanjay Van Area.we have observed various flora and fauna there.it a very pleasant experience along with our friends and teachers.
11-8-2023 6:39:33	Neha Kumari	23/23034	1 St semester, b 1 batch , life sciences program	kumarineha68307@gmail.com	7678619657	Observe wide variety of flora and fauna
11-8-2023 8:03:16	Tanishq dhaka	23096	1- life science	tanishqdhaka9@gmail.com	7417192220	Trip was good ....but unable to see much flora and fauna.
11-8-2023 9:06:47	Satwiki	23/23093	1st semester, Batch- B3, Bsc Life Science	satwiki874@gmail.com	7838513919	I explored a lot of things from this visit. I got know about the animals and plants residing in this ecosystem and their living habitat. I clicked a lot of pictures of ducks, birds, earthworms, etc so to study them. I think this visit helped me to expand my knowledge about flora and fauna.
11-8-2023 10:55:36	Gaurav	23/23072	Sem 1 / Batch B2/ Bsc Life science	gourav90982@gmail.com	8810351342	Got to about flora and fauna.I collection so many geotage images of beautiful plants and animals.
11-8-2023 17:22:30	Amrita	23/23136	Semester 1, 2023,Bsc.life science, section -B	amrita999976@gmail.com	8826596967	It was an amazing trip with teachers and friends All teachers taught us very well about flora and fauna there I really enjoyed this educational trip
11-8-2023 17:26:12	Tanvi Dhall	23/23097	Semester 1st Batch 3 and course Bsc life science	tanvidhall2005@gmail.com	9810568214	Good experience .. exciting place.. loving wildlife we explore and learn....
11-8-2023 17:28:14	SAGAR PATEL	23/23090	1 semester,B3, B.sc (Prog) Life Science	patelsagar6113@gmail.com	9519326186	We learnt many thing.we saw some annelids ...we saw different species of plants
11-8-2023 17:34:50	Kiran Bhatt	23/23026	1st semester ,batch 1 and bsc life science	bhattkiran2005@gmail.com	9625408341	I discovered a lot many animals species that are not seen in every day life aur learned about their habits and habits
11-8-2023 17:38:48	Nidhi Mishra	23/23082	Semester 1, Batch- B3, B.Sc Life Science	nidhimishray@gmail.com	9354674969	Forest is always not about the carnivorous and herbivores animal it's all about understanding the biodiversity and how the plants and the animal live together. In the same ecosystem.
11-8-2023 17:55:51	Rachit Yadav	23/23088	BSC Life Sciences 1st Yr	rachityadav562@gmail.com	9315472289	When I visited Sanjay Van, I was immersed in nature and learn about the rich biodiversity . We explored the walking trails, observe various plant and animal species, and gain a deeper understanding of the importance of conservation. It was a peaceful and educational experience that will left me with a greater appreciation for the natural world.
11-8-2023 18:31:01	SUROJIT KANDAR	23/23118	Semester-1, Section -B, Batch -4, BSc Life Science	surojitk987@gmail.com	8799763585	

11-8-2023 18:48:07	Diksha joshi	23/23122	1 sem, B4 bsc prog life science	dikshajoshi1404@gmail.com	8279719570	The nature is home to many. We got to observe learn and see about various flora and fauna. We also learned the habitat of many reptiles and birds.
11-8-2023 19:20:55	Riya Tiwari	23/23117	1st semester, B4 batch and B.Sc. Life Science	triya3298@gmail.com	6203939017	We have seen different floral and fauna in Sanjay van and it was nice experience .
11-8-2023 20:08:16	MAYANK CHAUHAN	23/23123	1 SEM B4 BSC LIFE SCIENCE	mayankchauhan1834@gmail.com	07303807718	In SANJAY VAN I was learn that the beauty of the nature and peace in forest. I was seen some fauna Cervidae spider snail monarch butterfly Bosela Phus Trago Camelus and some other higher animal in Sanjay van. Major part is filled with the fauna there are so many types or species plant present in the Sanjay van they have different type of flower fruits leaf and other.
11-9-2023 9:13:19	Sweetie Kumari	23/23132	Life sci 1st sem	Sweetie2k02@gmail.com	8434546516	Rich biodiversity lots of flora and fauna
11-12-2023 22:19:48	Pinki	23/23084	1st B3, Bsc. Life Science	pinkigkr@gmail.com	9311338286	I had new experience through this visit. I got to know about the flora and fauna of sanjay van which is amazing and beautiful by nature.This visit made me understand about how different species are conserve and my take away is that unforgettable experience when I saw flora and fauna of sanjay van I felt the nature from deep down. I am grateful towards my professors who gave me opportunity to understand the nature through this visit.I also enjoyed learning about those flora and fauna with my friends (classmates) Because we were searching about those flora on google and it make us more informative and knowledgeable about those flora and fauna.
11-16-2023 16:29:41	Arpit Kumar	23/23120	1,B-4, b.sc life sciences	arpitandsaurav@gmail.com	7011258442	
12-2-2023 14:40:43	Anusha	23/23119	1st year B-4,BSc Life science	anusha046a@gmail.com	9821283015	





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## Department of Life Sciences

### GEOTAGGED PHOTOS OF SANJAY VAN VISIT





Department of Biochemistry: DRDO Visit Report

INMAS, DRDO visit Report

Date: 08 July, 2023

An exhibition has been organized on 8<sup>th</sup> July 2023 in INAMS (Institute of Nuclear Medicine & Allied Sciences) a premier lab of DRDO under supervision of Dr. Himanshu Ojha, a senior scientist at DRDO. About 14 students from the **Department of Biochemistry, Shivaji College along with Dr. Abhijeet Mishra** Asst. Prof., Dept. of Biochemistry participated in this exhibition. The exhibition starts with an introduction to nuclear medicines.

In the first half, they showcase its products and emerging technologies to science graduate students. The main objective of INAMS is the development of radioprotectors, the development of diagnostics and therapeutic approaches using non-invasive imaging techniques, and the neurocognitive and endocrine functional assessment of the human body. They developed Ciprofloxacin Cold Kit for Infection Scintigraphy: 'Diagnobact', light Weight Foldable Stretcher, Lightweight backpack type Army field Cot., Adjuvant Cancer Therapy with 2-Deoxyglucose, UMBRIEL-the UV Herbal Screen for High Altitude. This was continued by a tea break, after this tea break participants get a chance for the lab visit with a clear vision of the CT scan machinery they are using for their experimental work. They also talked about the imaging techniques they are using. The visit was followed by a lunch break. After lunch break participants and professors were asked to give feedback, then certificates were given to the participants. This visit to INAMS at DRDO ends with a group photo.

Dr. Sunita Singh





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### Department of Biochemistry: Attendance of DRDO Visit

(VISIT - DRDO, INMAS)

S.No	Name	Contact No.	Biochemistry (Attendance)	E-mail	Signature
1.	Sony Sharma	9082521848	drsony19@gmail.com	sony19@gmail.com	[Signature]
2.	Himani Gauran	8826426741	himangauranbio@gmail.com	himangauranbio@gmail.com	[Signature]
3.	Shweta	8500107276	shweta18mittal@gmail.com	shweta18mittal@gmail.com	[Signature]
4.	Arushi Arora	852854225	arushiarora1454@gmail.com	arushiarora1454@gmail.com	[Signature]
5.	Shweta Kumar Dahi	845044448	sweta452003@gmail.com	sweta452003@gmail.com	[Signature]
6.	Nitika Kumari	702737546	nitika73@gmail.com	nitika73@gmail.com	[Signature]
7.	Sakshi Anand	8587721848	SakshiAnand2001@gmail.com	SakshiAnand2001@gmail.com	[Signature]
8.	Sayana Simson				
9.	Spash Aggarwal				
10.	Karshita Kohli				
11.	Sanjana Gupta				
12.	BhumiKa				
13.	Vandana				

\* Department of Biochemistry, Shivaji College, University of Delhi

Name	Roll No.	Sign
1. Sayana Simson	21/06055	Sayana
2. Spash Aggarwal	21/06032	Spash
3. Karshita Kohli	21/06026	Karshita
4. Sanjana Gupta	21/06007	Sanjana
5. Sony Sharma	21/06050	Sony

*[Signature]*

Dr. Sunita Singh



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Department of Biochemistry: Photographs of DRDO Visit



*Sunita*

Dr. Sunita Singh





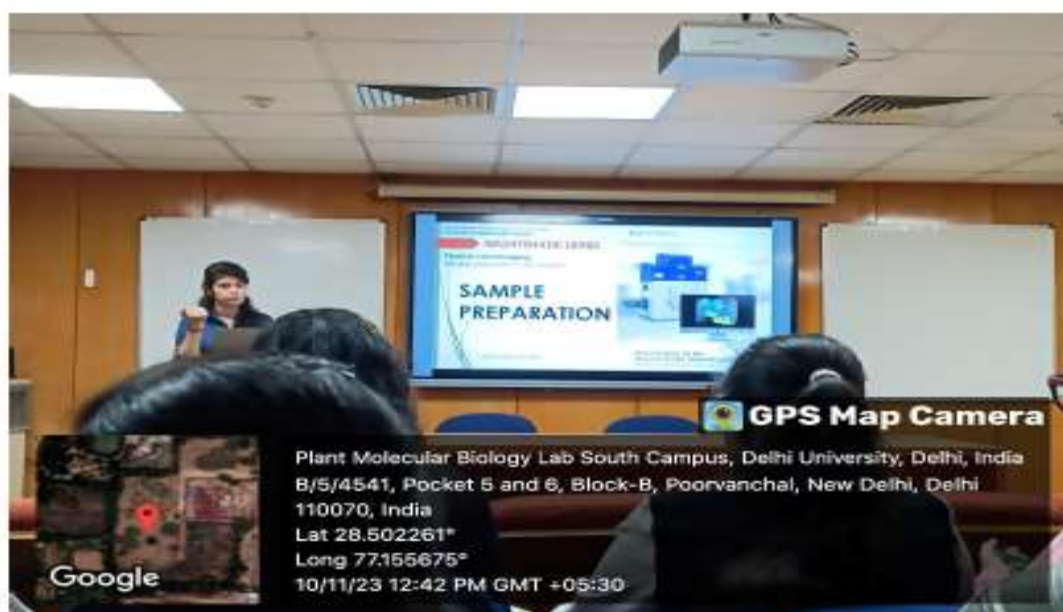
## Department of Biochemistry: Educational Visit to South Campus

### Report Educational Trip November 10, 2023

The Department of Biochemistry, Shivaji College, University of Delhi (under the aegis of DBT sponsored Star College Scheme) went for an Educational Trip to Prof. Girdhar Pandey's lab, Department of Plant Molecular Biology, University of Delhi, South Campus on November 10, 2023 from 11:00AM onwards. Prof. Girdhar Pandey and his PhD students familiarized the students with the plant tissue culture and gave them hands on training of each step involved. It was attended by 12 B.Sc. (H) Biochemistry Sem V students. This educational trip was organized by Dr. Sunita Singh and Dr. Usha Yadav.

**List of the Participants (Total-12 students + 2 faculty members)**  
B.Sc. (H) Biochemistry Sem V

#### Pictures:





## Department of Biochemistry: Photographs of Educational Visit to South Campus







## Department of Biochemistry: Educational Visit to NIPGR

### A brief report on "National Institute of Plant Genome and Research (NIPGR) open-day visit"

A visit to the National Institute of Plant Genome and Research (NIPGR) was organized by the faculty of Shivaji College under the proper guidance of Dr. Abhijeet Mishra, Department of Biochemistry and Dr. Rangnath Ravi, Department of Chemistry on **22<sup>nd</sup> Dec 2023**. Totally 15 students from semesters III and V from different backgrounds, such as biochemistry, botany, and zoology participated in this visit. There are exhibitions of students who are working on different projects or research areas. There are so many research titles that increase the curiosity of students and make them fond of research work. The main purpose of the researcher is to provide a good plant with fewer consequences and environmental or resource consumption.

They had worked on plant mechanisms to cope with flooding stress in which they have modified a species of paddy by post-translational modification due to which the crop can survive more than 10 days even in a flood situation they try to stop the plant growth and focus on the photosynthesis process to meet the nutrient requirement in case of a flood. They named the transformed plant as scuba diving rice.

There is another research in which the researchers developed a technique to stop seed aging which is done in the case of orthodox seeds, they identified a protein-repairing enzyme that is responsible for increasing the viability of a seed.

A mustard oil extractor was also prepared there to minimize the odour that comes from mustard oil, some people avoid to use mustard oil just because of this odor. There are many poster presented there which basically show more researches on plant genome and some efficient instruments used during research. This visit increased the scientific temperament among the students and motivated them to work hard in research field. In the end students are also provided with refreshment.



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(University of Delhi)



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### Attendance

Attendance

Open day visit to NIPGER ON 22/12/23

Sl No.	Name	Dept.	R. No.	Signature
1	Aishwarya Yadav	B.Sc Botany	22/09001	Aishwarya
2	Ankit Kumar	B.Sc (H) Botany	22/09005	Ankit
3	Ayush Kumar Choudhary	"	22/09006	Ayush
4	Shreebhawan	B.Sc (H) Botany	22/09027	Shreebhawan
5	Anjali	"	22/09024	Anjali
6	Omgi Yadav	"	22/09025	Omgi Yadav
7	Neha Pandey	B.Sc (H) Botany	22/09028	Neha Pandey
8	Nisha Rawat	"	22/09011	Nisha Rawat
9	Arun Pandey	B.Sc (H) Zoology	21/22062	Arun Pandey
10	Ranjit	B.Sc (H) Biochemistry	21/06029	Ranjit
11	Nitika	"	21/06042	Nitika
12	Sahil	"	21/06031	Sahil
13	Disha	"	21/06046	Disha
14	Nilesh Singh	B.Sc Botany	22/09016	Nilesh Singh
15	Pooan	Ph.D., Botany		Pooan





## Department of Biochemistry: Photographs of NIPGR Visit





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### Minor Projects

महाविद्यालय अनुसंधान एवं नवाचार प्रकोष्ठ  
College Research & Innovation Cell  
शिवाजी कॉलेज (दिल्ली विश्वविद्यालय)  
Shivaji College (University of Delhi)  
नई दिल्ली - ११० ०२७  
New Delhi - 110 027

**Intramural Research Scheme  
Minor Research Projects  
Sanction Year: 2022-2023**

S. No.	File No.	Principal Investigators	Title of the Project	Student Details	Sanction Order Details & Date of Start (DOS)
1	MRP/2022 - 2023/0001	1. Dr. Neena Khanna (Dept. of Chemistry) 2. Dr. Parveen Gahlyan (Dept. of Chemistry)	Synthesis of rhodamine based chemosensors and their application in detection of toxic metal ions	1. Garv Gupta (Roll No.: 21/10027) B. Sc. (H) Chemistry 2. Sakshi Bhardwaj (Roll No.: 21/10066) B. Sc. (H) Chemistry 3. Yngita (Roll No.: 21/10053) B. Sc. (H) Chemistry 4. Garv Gaur (Roll No.: 21/10048) B. Sc. (H) Chemistry 5. Gurit Marakata (Roll No.: 21/10071) B. Sc. (H) Chemistry	SH/Adm./ 2175/23 Dated 21/01/2023  DOS: 02.02.2023
2	MRP/2022 - 2023/0002	1. Dr. Neetu Rani (Dept. of Mathematics)	Mathematical Modelling for Volume Estimation of Guava (Psidium Guajava L.)	1. Raghav Anand Nath (Roll No.: 21/17007) B.Sc. (H) Mathematics 2. Vaibhav Bhatt (Roll No.: 21/17143) B.Sc. (H) Mathematics 3. Sneha Gupta (Roll No.: 21/17096) B.Sc. (H) Mathematics 4. Shashvat Kumar Mishra (Roll No.: 22/17067) B.Sc. (H) Mathematics 5. Dolly Chawla (Roll No.: 22/09026) B.Sc. (H) Botany 6. Sadoni (Roll No.: 22/09018) B. Sc. (H) Botany	SH/Adm./ 2295/23 Dated 03/03/2023  DOS: 05.03.2023

Page 1 of 4

Kumar Priyanka  
03/03/2023

Shivaji College  
Intramural Research Scheme  
Shivaji College (University of Delhi)  
नई दिल्ली - ११० ०२७  
New Delhi - 110 027





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Contd..

3	MRP/2022 - 2023/0003	1. Dr Kiran Bansal (Dept. of Botany) 2. Dr Seema Talwar (Dept. of Botany)	Impact of Elevated Temperature on the Seed Germination of Medicinal plants ( <i>Carthagenus coccineus</i> and <i>Trog milla pinnatifida</i> )	1. Anshu (Roll No. 22/09005) B. Sc. (H) Botany 2. Tribeni (Roll No. 22/09022) B. Sc. (H) Botany 3. Palak (Roll No. 22/23032) B.Sc. (Prog.) Life Sciences 4. Shriya (Roll No. 22/23071) B.Sc. (Prog.) Life Sciences 5. Gautam (Roll No. 22/23065) B.Sc. (Prog.) Life Sciences	SH/Admin/ 2296/23 Dated 03/03/2023  DOS: 05.03.2023
4	MRP/2022 - 2023/0004	1. Dr Preeti Tiwari (Dept. of Geography) 2. Ms Ekta Raman (Dept. of Geography)	Impact Assessment of Swachh Bharat Mission in Raghubir Nagar	1. Sonni Borana (Roll No. 22/31050) B.A. (H) Geography 2. Vanshika Punia (Roll No. 22/31055) B.A. (H) Geography 3. Aman Singh (Roll No. 22/49151) B.A. (Program) 4. Maseena Siddiqui (Roll No. 22/31029) BA(H) Geography 5. Aditya Sharma (Roll No. 22/49112) B.A. (Program)	SH/Admin/ 2297/23 Dated 03/03/2023  DOS: 05.03.2023
5	MRP/2022 - 2023/0005	1. Dr Jayita Thakur (Dept. of Biochemistry) 2. Dr Usha Yadav (Dept. of Biochemistry)	Comparative analysis of the effects of dietary supplements on <i>Drosophila melanogaster</i>	1. Sayena Simron (Roll No. 21/06055) B.Sc. (H) Biochemistry 2. Sanjana Gupta (Roll No. 21/06007) B.Sc. (H) Biochemistry 3. Suny Sharma (Roll No. 21/06050) B.Sc. (H) Biochemistry 4. Sahil Anand (Roll No. 21/06051) B.Sc. (H) Biochemistry 5. Shivangi Aggarwal (Roll No. 21/06030) B.Sc. (H) Biochemistry 6. Vandana (Roll No. 21/06047) B.Sc. (H) Biochemistry 7. Debdatta Chatterjee (Roll No. 22/06009) B.Sc. (H) Biochemistry 8. Pooja (Roll No. 22/06024)	SH/Admin/ 2298/23 Dated 03/03/2023  DOS: 05.03.2023

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Kumar Priganta  
03/03/2023

Shivaji  
Principal / Officiating Principal  
Shivaji College / Shivaji College  
Faculty / University of Delhi  
New Garden, New Delhi-110027  
Phone: 011-25155551



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				B.Sc. (H) Biochemistry 9. Kanishk Rai (Roll No. 22/06617) B.Sc. (H) Biochemistry 10. Tushar Gupta (Roll No. 22/06032) B.Sc. (H) Biochemistry	
6	MHP/2022 2023/0006	1. Ms Nimita Kant (Dept. of Zoology) 2. Dr Jitendra Kr. Chaudhary (Dept. of Zoology)	Developing insights into stem cell therapeutic potential for hematological disorders based on analysis of National Institute of Health (NIH)'s clinical trials repertoire	1. Priya Roy (Roll No. 21/22020) B.Sc. Zoology(H) 2. Akanksha (Roll No. 21/22021) B.Sc. Zoology(H) 3. Supriya Bhandwal (Roll No. 21/22054) B.Sc. Zoology(H) 4. Lakshay Bhandwal (Roll No. 21/22064) B.Sc. Zoology(H) 5. Priya Talwar (Roll No. 21/22069) B.Sc. Zoology(H)	SH/Admin/ 2299/23 Dated: 03/03/2023  DOS: 05.03.2023
7	MHP/2022 2023/0007	1. Dr Lalita Rana (Dept. of Geography) 2. Ms Rashmi Singh (Dept. of Geography)	Urban Sprawl Modelling & Commuting Pattern- Delhi Gurgaon Corridor: A Sustainable Gripesh	1. Inika Garg (Roll No. 22/31020) B.A. (H) Geography 2. Bhilini Verma (Roll No. 22/31021) B.A. (H) Geography 3. Toya! Giri Goswami (Roll No. 22/31054) B.A. (H) Geography 4. Nivedita Sharma (Roll No. 22/31033) B.A. (H) Geography 5. Dildar Ali (Roll No. 22/31017) B.A. (H) Geography 6. Shashank Singh (Roll No. 22/31047) B.A. (H) Geography 7. Akilesh Kumar (Roll No. 22/31009) B.A. (H) Geography 8. Syed Sadiq Husain (Roll No. 22/31053) B.A. (H) Geography	SH/Admin/ 2300/23 Dated: 03/03/2023  DOS: 05.03.2023

Kumar Priganka  
03/03/2023

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Shivaji College  
Principal / Officiating Principal  
Shivaji College / Shivaji College  
Shivaji College / Shivaji College  
New Delhi-110027  
Phone: 011-25155551





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Department of Physics: Permission to Visit National Physical Laboratory

P/19084/23  
18/07/23

The Principal  
Shivaji College  
University of Delhi  
Raja Garden

Subject: To take permission to visit NPL on 4 Oct.

Sir,

I would like to inform you that CSIR-National Physical Laboratory (NPL) has invited us to visit <sup>Minilabs</sup> on Wednesday 4, October 2023. Our department is interested to accept the invitation. We have been asked to send maximum 50 students and 5 faculty members. kindly allow us to take 50 students to NPL along with following faculty members:

1. Dr. Namta
2. Dr. S.S. Gaur
3. Prof Arun Vir Singh
4. Dr. S.K. Yadav
5. Ms. Neetu Verma

Invitation letter is attached herewith.

Thanking you,

Yours faithfully,

*[Signature]*

A.O.

*[Signature]*



## Department of Physics: Report of National Physical Laboratory Visit

### Visit to the National Physical Laboratory

Date: October 4, 2023

On October 4, 2023, the Department of Physics at Shivaji College, accompanied by 37 selected students, had the privilege of visiting the National Physical Laboratory (NPL). The visit provided a unique opportunity for both students and faculty to gain insight into cutting-edge research and applications in the field of physics.



Fig 1 :- Entire group at National Physical Laboratory

Our visit commenced with a tour of the Cryogenic Liquification Plants at NPL. The guide led us through this facility, where we had the opportunity to witness the preparation of liquid nitrogen and liquid helium from atmospheric gases. A knowledgeable researcher explained the intricate processes involved in producing these cryogenic liquids, emphasizing their critical roles in various scientific and industrial applications. Additionally, several experiments involving liquid nitrogen were conducted, showcasing its remarkable properties and practical



Contd..

applications.



**Fig 2 :- Students exploring physics throughout the visit at NPL**

The second part of The final part of our visit exposed us to a series of small, active research projects taking place at NPL. These projects covered a wide spectrum of topics, including crystal growth, UV luminous materials, white light generation through blue laser headlamp technology, nanotube-based sensitive movement tracking, and the development of a unique material stamp for enhancing the security of passports and government-authorized documents. Our interaction with the researchers involved in these projects was both enlightening and inspiring, leaving us with a sense of excitement about the future of science and technology. The visit led us to the Solar Department at NPL. Here, we encountered a diverse range of solar panels, each serving distinct purposes. A knowledgeable researcher enlightened us on the fascinating world of photovoltaics, discussing topics such as PN diodes,





Contd..

silicon, fabrication processes, and the differences between commercial and satellite solar panels. One of the highlights of this segment was the demonstration of ultra-pure silicon solar panels, boasting an impressive efficiency rate of approximately 27% for converting solar energy. We also had the opportunity to observe a standard solar panel with an efficiency of around 22%. This demonstration emphasized the strides being made in the field of solar energy and its potential to revolutionize the renewable energy landscape.



Fig 3 :- learning through advanced experiments and apparatus

#### Details

Name

IMG-20231004-WA0013

Time

10/4/23 3:47:36 PM





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## Department of Physics: Attendance of National Physical Laboratory Visit

### NIL VISIT ATTENDANCE

Third Year		signature (Reporting Time)	signature (Departure Time)
Roll No.	Name		
21/19014	SOURABH SHARMA		
21/19022	SAHIL SHARMA		
21/19029	MANSI DEVI		
21/19051	SATYAM SHIVAM		
21/19057	MANISH ROHILLA		
21/19064	AJAY KUMAR SHARMA		
21/19069	DIPESH TAILOR		
21/19075	YASHPAL YADAV		
21/19084	AMIT KUMAR		
21/19092	HARSH JAKHAR		
21/19136	SAGAR		
21/19141	BHAGWAT PRASAD TIWARI		
21/19145	AMIR SOHEL HAQUE		
21/19148	VANSH SHARMA		
21/19152	HIMANSHU		
21/19157	RAKESH		
21/19160	KARTIK BALYAN		
21/19178	MAYANK DALAL		

First Year		signature (Reporting Time)	signature (Departure Time)
Roll No.	Name		
23/19039	Siddhant Rawat		
23/19049	Aditya Harsh		
23/19069	Chandra Shekhar Pandey		
23/19010	Ayush Kumar Joshia		
23/19033	Saloni		

6.10.23





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Contd..

Second Year		signature (Reporting Time)	signature (Departure Time)
Roll No.	Name		
22/19004	Aniket Pathak	Aniket	Aniket
22/19007	Arpit Mann		
22/19009	Dheeraj lohar	Dheeraj	Dheeraj
22/19010	GYANSHU KUMAR		
22/19012	Harshita		
22/19013	Hemant Dagar		
22/19015	Ishika	Ishika	Ishika
22/19017	Jatin Bhayana	Jatin	Jatin
22/19018	Jatin Yadav		
22/19019	KIRTI	Kirti	Kirti
22/19020	Krishna Sharma		
22/19021	Manjesh Kumar		
22/19022	MANJESH KUMAR	Manjesh	Manjesh
22/19025	Naman Verma	Naman	Naman
22/19027	Nisha Yadav	Nisha	Nisha
22/19034	Pratyush agarwal	Pratyush	Pratyush
22/19036	RAHUL GOUR	Rahul Gour	Rahul Gour
22/19037	RAHUL MEHRA	Rahul Mehra	Rahul Mehra
22/19040	RIYA	Riya	Riya
22/19041	Sandhya Nayak	Sandhya	Sandhya
22/19042	Saurabh pal		
22/19045	SHUBHAM SANJAY		
22/19048	Vansh Goel		
22/19049	YASH		
22/19052	SHAMBHAVI YADAV	Shambhavi	Shambhavi
22/19054	Amulya Bhanuchandra Mohanta		
22/19056	Rishav Rawat	Rishav	Rishav
22/19057	SUKRITI SHARMA	Sukriti	Sukriti
22/19059	SAMARTH KUMAR	Samarth	Samarth

6.10.23





## Department of Physics: Educational Visit to Rashtrapati Bhavan

### AN EDUCATIONAL VISIT TO RASHTRAPATI BHAVAN

DATE :- December 14, 2023

On 14 December 2023, The Physics Society of Shivaji College participated in an educational visit to Rashtrapati Bhawan . Students of Physics Department of 5th semester along with some faculty members visited the program. All the students and teachers were very excited for the visit.

After all reached the Rashtrapati Bhawan , the host there welcomed them with all warm greetings and told us about the motive of the visit. The visit was not only oriented towards physics theories but contained knowledge of some great upcoming programs which can help in growth of a student. The agenda of this visit was to give knowledge about upcoming program launches and how we as a student can contribute . As a physics student we all have a dream to work with ISRO but it's not easy and as a student it's impossible, but now we students can also be involved in some upcoming projects. The host told us that ISRO is organizing some upcoming projects and it's a great honour that we can all be involved in it.

**The space station moon mission:-** Gateway is a vital component of the NASA-led Artemis missions to return to the Moon and chart a path for the first human missions to Mars. The small space station will be a multi-purpose outpost orbiting the Moon and providing essential support for lunar surface missions, a destination for science, and serving as a staging point for further deep space exploration. NASA is working with commercial and international partners to establish Gateway.

**Aditya L1:-**The Aditya-L1 mission aims to deepen our understanding of solar phenomena, including the solar corona, photosphere, and the impact of solar winds and related radiation. The spacecraft's instruments have been calibrated during its voyage, sending back X-ray images and particle counts, showcasing its healthy condition.

At the end the host concluded the program with a doubt session which went very well and all the students participated in it with great enthusiasm. The visit gave us experience of education, learning and motivation. We are honoured that we were a part of this.



Fig 1:- Students and faculty members at Rashtrapati bhavan



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Department of Physics: Permission Letter for Visit to IUAC

To  
The Principal,  
Shivaji College,  
University of Delhi,  
New Delhi

P/930/24  
10/02/24

A.O. + T.I. - 4  
16.2.24  
Pl. examine the matter  
16/2/24 S. Ojha

Subject: Request for the permission to visit IUAC on the occasion of National Science day (i.e. on 28.2.24).

Dear Sir,

I would like to inform you that we have been invited by IUAC (inter university acceleration center) to visit on the occasion of National Science day i.e. on 28<sup>th</sup> Feb 2024. They have asked us to send maximum 10 students with one faculty member.

Therefore, we are interested to send following 10 students of Bsc (H) Physics (IV sem) accompanied by Dr. Mamta.

1. Saurabh Pal. (22/19042)
2. Aniket Pathak (22/19004)
3. Ishika (22/19015)
4. Rahul Mehra (22/19037)
5. Sandhya Nayak (22/19041)
6. Nisha Yadav (22/19027)
7. Rishav Rawat (22/19056)
8. Manjesh Kumar (22/19022)
9. Jatin Bhayana (22/19017)
10. Deepanshu (22/19060).

Kindly allow us for this visit. IUAC invitation is attached.

Thanking You.  
Yours Sincerely,  
16.2.24  
Dr. Mamta (Associate Prof)  
Convener, Physics Society

22/02/24





Department of Physics: Report and Photograph of IUAC Visit

**VISIT TO THE INTER-UNIVERSITY ACCELERATOR CENTRE (IUAC)**

**Date: 28<sup>th</sup> February, 2024**

Science is a continuous journey; there is always something new and exciting to discover. In India, to honour the discovery of the "Raman Effect" by Indian Physicist **Sir Chandrasekhara Venkata Raman**, on 28 February 1928, **National Science Day** is Celebrated.

On 28 February 2024 Shivaji College, Department of Physics organised an educational visit to the **Inter-University Accelerator Centre (IUAC)**, New Delhi under the guidance of Dr. Mamta. InterUniversity Accelerator Centre celebrated the day as the National Science Day Programme. The Director of IUAC **Professor A.C Pandey** interacted with everyone and introduced about IUAC campus and faculty.

**Learning Outcomes:-**

1. The Chief Guest **Professor K. Rama Subramaniam** (IIT Mumbai) enlightened us with "The Maths and Astronomy of Aryabhata". Further, we were enlightened by "Different Dimensions of Vigyan Bharti".
2. we were also addressed on "Indigenous Technologies for Viksit Bharat 2047".
3. we had a tour of IUAC laboratories, and they provided premier information about the Beam Transport System, Liquid Nitrogen Refrigeration Plant, Liquid Helium Refrigeration Plant under the Cryogenic group, High Current Injector, Free Electron Laser, Positive and negative ion beam facilities.
4. Then, they provided us with the participation certificate and travel allowance.

To sum up, our visit to IUAC on National Science Day was a journey full of Inspiration that left a permanent impression on each one of us.



Fig 1: Students Group at IUAC



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## Department of Physics: Attendance of IUAC Visit

28.2.24

Attendance  
Educational visit to IUAC

S.No.	Roll No.	Name	Signature
1.	22/19022	Manjesh Kumar	Manjesh
2.	22/19027	Nisha Yadav	Nisha Yadav
3.	22/19004	Aniket Pathak	Aniket
4.	22/19042	Saurabh Patel	Saurabh
5.	22/19015	Ishtika	Ishtika
6.	22/19037	Rahul Mehra	Rahul
7.	22/19041	Sandhya Nayak	Sandhya
8.	22/19056	Rishav Rawat	Rishav Rawat
9.	22/19060	Deepanshu	Deepanshu
10.	22/19017	Jatin Bhayana	Jatin

28.2.24

Dr. Namita (convenor, Physics Society)  
Associate Prof.  
Deptt. of Physics





**Department of Biochemistry**  
**Shivaji College**  
**Summer Training Program on Research Methodology 3.0**  
**(June 05-July 03, 2023)**

**Report**

The summer training program on research methodology 3.0 was organized by the Department of Biochemistry, Shivaji College, University of Delhi under the aegis of DBT Sponsored Star College Scheme with the supervision of Dr. Jayita Thakur, Dr. Sunita Singh, Dr. Renu Baweja, Dr. Usha Yadav and, Dr. Abhijeet Mishra from June 05-July 03, 2023. Total 29 students participated in this program. The whole program was divided into 5 modules, the first module was taken by Dr. Renu Baweja in which she introduced the participants to research methodology and what a research proposal is all about this was followed with the assignments related to the module. The next module was conducted by Dr. Usha Yadav in which participants were given a clear view of the research and sample design, also they got to know about the literature review, how to develop a hypothesis, and what research plan they have to include in it. These 2 modules were covered in week 1. The next week was taken by Dr. Abhijeet Mishra, he gave a basic idea for the health camp, and how to collect data from that help camp and digitalization of data, this week health camp was organized on the premises of Shivaji College. This health camp includes various parameters such as Height, weight, BMI, fat percentage, visceral fat, basic metabolic rate, and body age. He also developed a scientific temperament among students with his thought-provoking questions. The next module was followed by Dr. Jayita Thakur, in which participants learn about many areas of data presentation, data processing, and statistical analysis in the field of biochemistry during the summer training program. Dr. Jayita Thakur held engaging workshops on these issues, giving a piece of insightful information and practical understanding to students. A health camp is also organized in Miranda House for further data collection. During this 3<sup>rd</sup>



Contd..

week of the program students also got a chance to interact with experts like Dr. Suman Kharbanda, she gave detailed information on how to use Microsoft Excel for data analysis with Dr. Chhavi Sharma, she emphasized the significance of data input and formatting in order to conduct correct analysis. A talk with Dr. Bhupender has conducted for an insight view of Hypothesis Testing, Statistical Tests, and Secondary data analysis.

The last module of this program was taken by Dr. Sunita Singh, who conducted the session on ethical principles in research. The significance of following these principles was emphasized, particularly in terms of biosafety and ethics compliance. These sessions are more interactive with talks from different experts like Prof. (Dr) Man Singh who talks about Intellectual property rights and Patents with his in-depth knowledge, Dr. Ajay opened the discussion by emphasizing the necessity of thorough and methodical research. He emphasized the need for well-defined research topics, clear objectives, and good preparation in guaranteeing a research project's success, and at last, Dr. Arjun gave us a quick overview of the statistical analysis and briefly reviewed the questions submitted in the form of a Google form. All the modules have their own different assignments / tasks which kept the students focused. At last, this summer training program was concluded with a valedictory session in which the feedback of students was taken and the certificates were distributed.





**The resource person of the program**

- **Dr. Jayita Thakur, Department of Biochemistry, Shivaji College, University of Delhi**
- **Dr. Renu Baweja, Department of Biochemistry, Shivaji College, University of Delhi**

- **Dr. Sunita Singh, Department of Biochemistry, Shivaji College, University of Delhi**
- **Dr. Usha Yadav, Department of Biochemistry, Shivaji College, University of Delhi**
- **Dr. Abhijeet Mishra, Department of Biochemistry, Shivaji College, University of Delhi**
- **Dr. Suman Kharbanda, Department of Commerce, Shivaji College, University of Delhi**
- **Dr. Chhavi Sharma, Department of Commerce, Shivaji College, University of Delhi**
- **Dr. Bhupender, Department of Microbiology, Swami Shraddhanand College, University of Delhi**
- **Prof. (Dr) Man Singh, School of Chemical Sciences, Central University of Gujarat**
- **Dr. Ajay, Department of Economics, Shivaji College, University of Delhi**
- **Dr. Arjun, Department of Economics, Shivaji College, University of Delhi**



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## Posters



Inter College Summer Training Program  
on

**RESEARCH METHODOLOGY 3.0**

June 05 – June 03, 2023

### LEARNING OUTCOMES

Participants will:

- Learn to design a research based study and conduct review of literature
- Conduct survey based data collection and organize health camps
- Analyze data using biostatistics followed by the interpretation of data
- Report the findings of project with appropriate citations and check for plagiarism
- Interact with the experts and visit research labs

**Last date for registration: June 01, 2023\***

\* No registration fees. Limited seats available.  
Selected students will be informed through registered Email Id.  
Certificates will be issued after successful completion of the STP.

### PROGRAM COORDINATORS

Dr. Jayita Thakur, Dr. Renu Baweja,  
Dr. Sunita Singh, Dr. Usha Yadav  
Dr. Abhijeet Mishra

COORDINATOR  
STAR COLLEGE SCHEME  
Dr. Renu Baweja

PATRON  
Dr. Shiv Kumar Sahdev  
Principal

### WHO CAN APPLY?

UG and PG students

### REQUIREMENT:

Access to Laptop/Desktop

[Click here to register](#)

Or

Scan QR code







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(दिल्ली विश्वविद्यालय)

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### Photographs







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(दिल्ली विश्वविद्यालय)

## Shivaji College

(University of Delhi)



NAAC ACCREDITED "A" GRADE COLLEGE

### Attendance

SUMMER TRAINING PROGRAM "RESEARCH METHODOLOGY 3.0"			
		DATE 8/06/23	
1.	Palak Pandey (Hansraj College)	BSc. Life Science	Palak
2.	Nikita Wadhwa (Hansraj College)	BSc Life Sciences	Nikita
3.	Shruti, Bhaskaracharya College of Applied Sciences	BSc (H) Microbiology (IV)	Shruti
4.	Megha, Bhaskaracharya College	BSc (H) Microbiology	Megha
5.	Kuntale, Bhaskaracharya "	B.Sc (H) Microbiology	Kuntale
6.	Overi (Shakeel Rajguru College of Applied Sciences for Women)	B.Sc (H) Microbiology	Overi Dubey
7.	Anshika Goel, GD Goel	BSc (H) Biotech (II)	Anshika
8.	Sakshi Agrawal, Bhaskaracharya	BSc (H) BMS	Sakshi
9.	Abhaneel Gupta, BCAS	B.Sc (H) BMS	Abhaneel
10.	Vertika Rai, CPGC	M.Sc. Zoology	Vertika
11.	Rishi kumari, IIT	B.Sc (H) Biochem	Rishi kumari
12.	Ekti Mishra, IIT	BSc (H) Food Tech	Ekti
13.	Nitika Kumari (Shivaji College)	B.Sc (H) Biochem	Nitika
14.	Sahil Anand (Shivaji College)	B.Sc (H) Biochem	Sahil
15.	Disha Chaudhary (Shivaji College)	B.Sc (H) Biochem	Disha
16.	Bhanya, Mittal (Shivaji College)	B.Sc (H) Biochem	Bhanya
17.	Natasha Yadav (Sri Venkateswara College)	B.Sc (H) Biochemistry	Natasha
18.	Anurita (Shivaji College)	B.Sc (H) Botany	Anurita
19.	Himani Gautam	BSc (H) Biochemistry	Himani
20.	Ananya (Deshbandhu College)	B.Sc (H) Biochemistry	Ananya
21.	Ayush Negi (Bhaskaracharya)	B.Sc (H) Chemistry	Ayush
22.	Ayush Chaudhary (Amity University)	B.Sc (H) Biochem	Ayush
23.	Anirudh (Amity University)	B.Sc (H) Biochem	Anirudh
24.	Mohit Vashista (Swami Shraddhanand College)	BSc (H) Microbiology (IV)	Mohit
25.	Siddhant Jain (Deshbandhu College)	Biochem (H)	Siddhant
26.	Ashish Rana	M.Sc. Biochem	Ashish
27.	Preeti Tharimuni (Deshbandhu College)	BSc (H) Biochemistry	Preeti
28.	Anshika, Ramjas College	BSc Life Sci	Anshika





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**Shivaji College, Star College Scheme  
Department of Botany**

**Summer Training program on  
"Conservation and Utilisation of Medicinal Plants"  
from June 12- June 20, 2023**

Department of Botany, Shivaji College had organized a week-long Summer Training Internship Programme under the aegis of DBT Star College Scheme, entitled "Conservation and Utilisation of Medicinal Plants " from June 12- June 20, 2023.

The session on the first day was addressed by **Dr. Vijay Kumar**, on 'Herbal Garden and Herbarium Techniques', followed by a talk delivered by **Prof. Pratima Rani Sardar** (Teacher in charge). The participants were acquainted with the procedures to prepare herbarium specimens, which was followed by a visit to the herbal garden of the college with **Dr. Devender Singh Meena**, to familiarize them with various plants of medicinal use. On the second day of the programme, the participants received hands-on training on experiments regarding Reproductive Biology of plants after a lecture session on the 'Role of Reproductive Biology in Conservation of Medicinal Plants' by **Dr. Prabhavathi** and **Dr. Seema Talwar** as the resource persons. The third day was devoted to a session on 'Conservation of knowledge related to medicinal plants and their uses' by **Dr. Kiran Bamel** and **Dr. Nupur Mondal**, followed by making students aware about the digital tools required to access information about traditional knowledge, modern patents and copyrights of plants available in our country. This was succeeded on the next day by a lecture session on 'Somatic Embryogenesis and artificial seeds' by **Dr. Anuradha Mal** and **Dr. Deepshikha Chatterjee**, where the participants learnt about raising plants on artificial growth media apart from soil after preparing them. The Programme also included a trip to the **Botanical Garden of the Republic of India (BGRI, NOIDA)**, where the participants were apprised of the natural habitats and growth conditions of a wide variety of flora ranging from aquatic plants to the large trees. **Dr. Priyanka Ingle** (Scientist E and Head of Office, BGRI) led the participants to different sections of the Garden, including arboretum, Ayurvedic Herbal Garden, gave detailed account of the flora present and answered the various queries put forward by them. Participants also visited museum of BGRI displayed with collection of photographs and copy of important illustration of plants gathered from various parts of the world. **Dr. Smita Tripathi**, **Dr. Misha Yadav** and **Dr. Anurag Maurya** served as the resource persons on the penultimate session of the programme on 'Active phytochemicals in medicinal plants', where participants were familiarised with protocols related to phytochemical analyses. On the last day of the programme, an exploratory visit to **Ayurvedic and Unani Tibbia College and Hospital, Karol Bagh, Delhi** was made. Here, **Dr. Shalini Varshney** (Dept. of Dravyaguna) and her team delivered lectures on conservation and utilisation of medicinal plants and also familiarized the participants on the same with a visit to the institute's Herbal Garden and research facilities available there.

The key highlights of the programme were the excursions to BGRI and A&U Tibbia College and Hospital, where the students received experiential learning not only about medicinal plants but also about the flora of Delhi in general.

No. of student beneficiaries: 13





Prof. Prabhavathi V  
Teacher in Charge  
Department of Botany




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(University of Delhi)




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Department of Botany  
**Shivaji College**  
University of Delhi, New Delhi  
*under the aegis of*  
**DBT Star College Scheme**  
*organises*  
SUMMER TRAINING PROGRAMME ON  
**CONSERVATION AND UTILISATION  
OF MEDICINAL PLANTS**

 June 12th to June 20th, 2023  
10:30 am to 5:00 pm

QR code for Registration



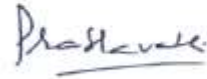
Register at:  
<https://forms.gle/ARJgJ26JsTca3yhs8>  
\*\*\*No registration fee to be paid

**Dr. Anuradha Mal**  
Convener  
DBT Star College Scheme  
Department of Botany

**Prof. Pratima Rani Sardar**  
Teacher in Charge and  
Co-convener, DBT Star College Scheme  
Department of Botany

**Prof. Shiv Kumar Sahdev**  
Patron  
Principal

**Dr. Anurag Maurya and Dr. Deepshikha Chatterjee**  
Co-convener, DBT Star College Scheme, Department of Botany

  
**Prof. Prabhavathi V**  
Teacher in Charge  
Department of Botany





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**SHIVAJI  
COLLEGE**  
(University of Delhi)  
NAAC Accredited 'A' Grade



Department of Botany  
(Under the aegis of DBT Star College Scheme)

Organizes

**SUMMER TRAINING PROGRAMME**

On

*Conservation and Utilisation of Medicinal Plants*

June 12 - June 20, 2023

Venue: Department of Botany, Shivaji College

**Organizing Committee**

**Patron:** Prof. Shiv Kumar Sahdev, Principal (Officiating)

**Coordinator:** Dr. Renu Baweja, DBT Star College Scheme

**Convenor:** Dr. Anuradha Mal

**Co-convenors:** Prof. Pratima Rani Sardar, Dr. Anurag Maurya, Dr. Deepshikha Chatterjee

**Teacher in Charge:** Prof. Pratima Rani Sardar

**Organizing Committee:** Dr. Vijay Kumar, Dr. Prabhavathi, Dr. Smita Tripathi, Dr. Kiran Bamel, Dr. Misha Yadav, Dr. Seema Talwar, Dr. Nupur Mondal, Dr. Devender Singh Meena

Prof. Prabhavathi V  
Teacher in Charge  
Department of Botany



**शिवाजी कॉलेज**  
(दिल्ली विश्वविद्यालय)  
*Shivaji College*  
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NAAC ACCREDITED "A" GRADE COLLEGE

**Department of Botany: Summer Training Programme Schedule**

**PROGRAMME SCHEDULE**

12 June- 20 July 2023

Day	Date	Morning Session	Topic of Talk	Resource Person	Afternoon Session	Hands On Training
Monday	12.6.2023	10:30 AM-1:00 PM	<i>Herbal Garden and Herbarium techniques</i>	Dr. Vijay Kumar Prof. Pratima Rani Sardar Dr. Devender Singh Meena	2:00 PM onwards	<i>Visit to Herbal Garden of the College, Herbarium preparation</i>
Tuesday	13.6.2023	10:30 AM-1:00 PM	<i>Role of reproductive biology in conservation of medicinal plants</i>	Dr. Prabhavathi V. Dr. Seema Talwar	2:00 PM onwards	<i>Experiments Related to Reproductive Biology</i>
Wednesday	14.6.2023	10:30 AM-1:00 PM	<i>Conservation of knowledge related to medicinal plants and their uses</i>	Dr. Kiran Bamel Dr. Nupur Mondal	2:00 PM onwards	<i>Repository of traditional knowledge and other digital tools for patents and copyrights</i>
Thursday	15.6.2023	10:30 AM-1:00 PM	<i>Somatic embryogenesis and artificial seeds</i>	Dr. Anuradha Mal Dr. Deepshikha Chatterjee	2:00 PM onwards	<i>Tissue culture technique for medicinal plants</i>
Friday	16.6.2023	10:30 AM-onwards	<i>Trip to BGRI, Noida</i>	Dr. Devender Singh Meena Dr. Anurag Maurya Dr. Deepshikha Chatterjee		<i>Compilation of Report for the Trip</i>
Monday	19.6.2023	10:30 AM-1:00 PM	<i>Active phytochemicals in medicinal plants</i>	Dr. Smita Tripathi Dr. Misha Yadav Dr. Anurag Maurya	2:00 PM onwards	<i>Phytochemical analysis of selected medicinal plants</i>
Tuesday	20.6.2023	10:30 AM-1:00 PM	<i>Visit to Ayurvedic and Unani Tibbia College and Hospital, Delhi</i>  <i>Report Compilation and submission</i>	Dr. Shalini Varshney (Dept. of Dravyaguna, A&U Tibbia College & Hospital) Dr. Anurag Maurya Dr. Devender Singh Meena Dr. Deepshikha Chatterjee	2:00 PM onwards	<i>Valedictory Session</i>

*Prabhavathi V.*

Prof. Prabhavathi V  
Teacher in Charge  
Department of Botany





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(University of Delhi)

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List of Participants

**Department of Botany**  
Shivaji College (University of Delhi)  
(Under aegis of DBT Star College Scheme)

**SUMMER TRAINING PROGRAMME**  
*entitled 'Conservation and Utilisation of Medicinal Plants'*

**Attendance** Date: 12-06-2023

S. N.	Name	Course	Sem	Name of the College	Signature of the participant	
					Morning	Evening
1.	Pooja	B. Sc. (H) Biochemistry	II	Shivaji College, University of Delhi	<i>Pooja</i>	<i>Pooja</i>
2.	Priyanka bisit	B. Sc. (H) Biochemistry	II	Shivaji College, University of Delhi	<i>Priyanka</i>	<i>Priyanka</i>
3.	Sarthak	B. Sc. (H) Botany	IV	Shivaji College, University of Delhi	<i>Sarthak</i>	<i>Sarthak</i>
4.	Sneha goyal	B. Sc. (H) Botany	IV	Shivaji College, University of Delhi	<i>Sneha</i>	<i>Sneha</i>
5.	Jaashika Sinha	B. Sc. (Life Science)	II	Shivaji College, University of Delhi	<i>Jaashika Sinha</i>	<i>Jaashika Sinha</i>
6.	Asmita Mishra	B. Sc. (Life Science)	IV	Shivaji College, University of Delhi	<i>Asmita</i>	<i>Asmita</i>
7.	Jatin joda	B. Sc. (Life Science)	IV	Shivaji College, University of Delhi	<i>Jatin joda</i>	<i>Jatin joda</i>
8.	Kunal	B. Sc. (Life Science)	IV	Shivaji College, University of Delhi	<i>Kunal</i>	<i>Kunal</i>
9.	Utkarsh Srivastava	B. Sc. (Life Science)	IV	Shivaji College, University of Delhi	<i>Utkarsh</i>	<i>Utkarsh</i>
10.	Anurita	B.Sc(Botany)	IV	Shivaji college, University of Delhi		<i>Anurita</i>
11.	Shaurya	BSc Life Science	II	Shivaji College, University of Delhi		



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Department of Botany: Summer Training Photographs

Lecture Sessions:



*Prabhavathi*

Prof. Prabhavathi V  
Teacher in Charge  
Department of Botany





Department of Zoology: Summer Training

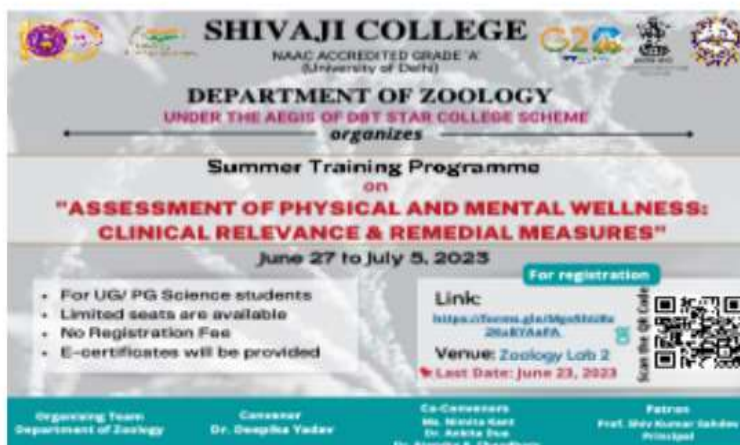
**REPORT**

**Summer Training under the aegis of DBT Star College Scheme  
organized by Department of Zoology, Shivaji College  
"Assessment of Physical & Mental Wellness: Clinical relevance &  
Remedial Measures"**

June 27 to July 5, 2023

Venue: Zoology Lab II

Number of Beneficiaries: 30 PAN India UG & PG Students



A hands-on summer training was conducted by the faculty members of Department of Zoology under the aegis of DBT Star College Scheme from June 27<sup>th</sup> – July 5<sup>th</sup> 2023 in Zoology Laboratories I and II. A total of six modules were conducted over this duration pertaining to assessment of physical and mental wellness and to educate the students about remedial measures as well to lead a healthy and balanced life ahead. The detailed reports of modules as well as pictures of the same are as follows:

**Module I: Hemolytic Assay [June 27, 2023]**

Resource Persons: Dr. Rakesh Roshan & Dr. Deepika Yadav

A hemolysis assay is a laboratory test used to assess the ability of certain substances to lyse or rupture erythrocytes. Hemolysis can occur due to the action of various agents, such as

Dr. Deepika Yadav  
Convener, DBT Star College Scheme, Zoology Department





Contd..

toxins, chemicals, or enzymes. The assay is commonly used in medical and research settings for different purposes, including toxicity testing, drug development, immunological research, diagnostics and the study of various biological phenomena.

Students also gained hands-on experience for using micropipettes and handling equipment like cooling centrifuge, water bath, and microplate reader etc.



## Module II: Identification of Haemo-parasites [June 28, 2023]

Resource Persons: Dr. Neetu Singh

Dr. Deepika Yadav

Convener, DBT Star College Scheme, Zoology Department





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### Department of Zoology: List of Participants

#### Department of Zoology

#### Shivaji College

#### Summer Training under the aegis of DBT Star College Scheme

#### "Assessment of Physical & Mental Wellness: Clinical relevance & Remedial Measures"

(June 27 to July 5, 2023)

#### Module 1 : Hemolytic Assay, Date June 27, 2023

Time 10:00 a.m.-2:00 p.m.

Resource Person: Dr. Rakesh Roshan & Dr. Deepika Yadav

#### Attendance List of Participants

S. N.	NAME OF STUDENT	COURSE	SEM	NAME OF COLLEGE	Signature
1.	Mehul Verma	B.Sc. (P) Life Science	4	Shivaji College	9711537304 Mehul
2.	Jatin Jindal	B.Sc. (P) Life Science	4	Shivaji College	9821956620 Jatin
3.	Khushi Yadav	B.Sc. (P) Life Science	4	Shivaji College	
4.	Prerna	B.Sc. (P) Life Science	4	Shivaji College	9728305310 Prerna
5.	Mohit Deswal	B.Sc. (H) Zoology	6	Shivaji College	9717954093 Mohit
6.	Khushi Kumari	B.Sc. (P) Life Science	4	Shivaji College	9315003655 Khushi
7.	Gungun Garg	B.Sc. (P) Life Science	4	Shivaji College	9212055986 Gungun

8.	Ajay Chauhan	B.Sc. (P) Life Science	4	Shivaji College	9625735912 Ajay
9.	Ritika Dewan	B.Sc. (P) Life Science	4	Shivaji College	9810256498 Ritika
10.	Kunal	B.Sc. (P) Life Science	4	Shivaji College	9654056061 Kunal
11.	Utkarsh Srivastava	B.Sc. (P) Life Science	4	Shivaji College	7838888057 Utkarsh
12.	Purnima Maurya	B.Sc. (P) Life Science	4	Shivaji College	
13.	Jhalak Kalra	B.Sc. (P) Life Science	4	Shivaji College	9871592992 Jhalak
14.	Lakshay Bhardwaj	B.Sc. (H) Zoology	4	Shivaji College	9466137032 Lakshay
15.	Hritika Shree	B.Sc. (H) Zoology	4	Shivaji College	9931618116 Hritika Shree
16.	Sakshi Saini	B.Sc. (H) Zoology	6	Shivaji College	
17.	Sneha Goyal	B.Sc. (H) Botany	4	Shivaji College	
18.	Khushi	B.Sc. (H) Zoology	4	Shivaji College	
19.	PRIYA TALWAR	B.Sc. (H) Zoology	4	Shivaji College	
20.	Akansa	B.Sc. (H) Zoology	4	Shivaji College	
21.	Sarthak Kaushik	B.Sc. (P) Life Science	4	Swami Shraddhanand College	
22.	Saumya Sharma	B.Sc. (P) Life Science	4	Swami Shraddhanand College	

Deepika Yadav



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23.	Geetanjali Israni	B.Sc. (P) Life Science	4	Swami Shraddhanand College	9315172375 Geetanjali
24.	Kajal kumari	B.Sc. (P) Life Science	4	Swami Shraddhanand College	8595336741 Kajal
25.	Pooja Pahel	B.Sc. (H) Zoology	4	Daulat Ram College	
26.	Sunpreet Kaur	B.Sc. (P) Life Science	6	SGTB Khalsa College	9821348433 Sunpreet Kaur
27.	Diksha Negi	B.Sc. (P) Life Science	6	SGTB Khalsa College	
28.	Ishpreet Kaur	B.Sc. (P) Life Science	4	SGTB Khalsa College	8527882337 Ishpreet
29.	Harpreet Kaur Sandhu	B.Sc. (P) Life Science	6	SGTB Khalsa College	9315079855 Harpreet K.
30.	Vimaldeep Kaur	B.Sc. (P) Life Science	4	SGTB Khalsa College	9811122561 Vimaldeep Kaur
31.	Gurleen Kaur	B.Sc. (P) Life Science	6	SGTB Khalsa College	
32.	Gagandeep Kaur	B.Sc. (P) Life Science	4	SGTB Khalsa College	8826212129 Gagandeep Kaur
33.	Abhishek Choudhary	M.Sc Microbiology	4	Galgotias university	Abhishek 931161037
34.	Ayan Ahmad	M.Sc Microbiology	4	Galgotias university	<del>9548258067</del>
35.	Shilpa	M.Sc Microbiology	4	Galgotias university	9548258067 Shilpa
36.	Rakshita Dhyani	B.Sc. (P) Life Science	4	Gargi College	9515835882 Rakshita

*Deepika Yadav*

37.	Trisha Mazumdar	B.Sc. (P) Life Science	4	Gargi College	7011780424 Trisha
38.	Muskan Gupta	B.Sc. (H) Zoology	4	Gargi College	
39.	Tanushree	B.Sc. (H) Zoology	6	Gargi College	6375394503 Tanushree
40.	Spansh Grodwasmi	B.Sc. (H) Zoology	6	Shivaji college	9654594908 spansh
41.	Pooja Kumari	B.Sc. (H) Zoology	6	Shivaji college	
42.	Riya shanker	B.Sc. (H) Zoology	6	Shivaji college	
43.	Ajit	B.Sc. (H) Zoology	6	Shivaji college	

Signature Resource Person (s):

*Rakshita* *Deepika Yadav*





## Internship



THE LEADING  
SOLUTIONS

**THE LEADING SOLUTIONS**

CIN NO. U74999DL2018PTC327828

Date: 23 Sep, 2023

Dear Pulkit Garg

Shivaji

### INTERNSHIP OFFER LETTER

We refer to recent interview for the below mentioned position and are pleased to offer you the position of **Intern** with **The Leading Solutions Pvt. Ltd.** You will report directly to Ms. Diksha.

Please find the following confirmation of the specifics of your internship:

**Designation: Intern**

**Department: Marketing And Finance**

**Date of Joining: 10 Oct, 2023**

**Location: Delhi/Work from Home**

For any queries please feel free to write us at: [hr@theleadingsolutions.com](mailto:hr@theleadingsolutions.com)  
Congratulations and welcome to the Team!

Best Wishes!!



(Authorized Signatory)  
Head HR  
TLS Pvt. Ltd.

The Leading Solutions, RG Trade Tower, Netaji Subhash Place, Pitampura, New Delhi - 110034  
Ph.: +91 1145597267, Email: [info@theleadingsolutions.com](mailto:info@theleadingsolutions.com), [www.theleadingsolutions.com](http://www.theleadingsolutions.com)



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**APPOINTMENT AS OPERATIONS INTERN**

Dear Pulkit,

On behalf of The Student Company, I am pleased to have you on board as an intern with us, starting on 17th June 2024.

At The Student Company, our mission is to empower students throughout their academic journey by providing a comprehensive platform that fosters their holistic growth. We cater to diverse needs, bringing together opportunities, resources, and services under one roof. Our user-friendly platform streamlines the process of discovering and engaging with extracurricular activities, internships, job opportunities, and mental health support.

As an intern, you will be expected to pay attention to the following points:

1. The duration of this internship will be a of minimum 3 months. ONLY after the completion of the minimum duration you will be eligible for the perks provided by this internship.
2. Work deadlines are something we consider very crucial for the efficient working of an organization. You will be expected to adhere to the deadlines provided by the coordinators. The inability to meet deadlines even after several warnings will lead to the termination of the Internship.
3. A prior notice of at least 1 week should be given to the management before the intern wishes to terminate this internship. In case of non-compliance with this clause, The Student Company has the right to not dispatch a certificate of internship.
4. The organization, being a student-run initiative, is a free space for all. However, any kind of unprofessional behaviour with peers or the management team shall lead to the termination of the Internship.

The perks provided to the intern will be:

1. Certificate of internship (After completion of a minimum duration of 90 days)
2. Letter of recommendation (conditional to performance)
3. Promotion opportunities (If any)
4. Access to webinars and sessions hosted by known speakers

We are excited by the prospect of you joining the organization.

Sincerely,

Team - The Student Company

By:

Name: Vishesh Jain

Title: Co-Founder

*Vishesh Jain*

I, \_\_\_\_\_, hereby accept the aforesaid position and the terms and conditions of this internship with The Student Company.

Name&Signature:

Date:





THE LEADING  
SOLUTIONS

**THE LEADING SOLUTIONS**

CIN NO. U74999DL2018PTC327828

Date: 25 Sep, 2023

Dear Riya Kumari

Shivaji

**INTERNSHIP OFFER LETTER**

We refer to recent interview for the below mentioned position and are pleased to offer you the position of Intern with **The Leading Solutions Pvt. Ltd.** You will report directly to Ms. Diksha.

Please find the following confirmation of the specifics of your internship:

**Designation: Intern**

**Department: Marketing And Hr**

**Date of Joining: 10 Oct, 2023**

**Location: Delhi/Work from Home**

For any queries please feel free to write us at: [hr@theleadingsolutions.com](mailto:hr@theleadingsolutions.com)  
Congratulations and welcome to the Team!

Best Wishes!!

(Authorized Signatory)  
Head HR  
TLS Pvt. Ltd.



THE LEADING  
SOLUTIONS

**THE LEADING SOLUTIONS**

CIN NO. U74999DL2018PTC327828

Date: 06 Oct, 2023

Dear Krish Jain

Shivaji

**INTERNSHIP OFFER LETTER**

We refer to recent interview for the below mentioned position and are pleased to offer you the position of Intern with The Leading Solutions Pvt. Ltd. You will report directly to Ms. Diksha.

Please find the following confirmation of the specifics of your internship:

Designation: Intern

Department: Marketing And Finance

Date of Joining: 10 Oct, 2023

Location: Delhi/Work from Home

For any queries please feel free to write us at: [hr@theleadingsolutions.com](mailto:hr@theleadingsolutions.com)

Congratulations and welcome to the Team!

Best Wishes!!



(Authorized Signatory)

Head HR

TLS Pvt. Ltd.

The Leading Solutions, RG Trade Tower, Netaji Subhash Place, Pitampura, New Delhi - 110034  
Ph.: +91 1145597267, Email: [info@theleadingsolutions.com](mailto:info@theleadingsolutions.com), [www.theleadingsolutions.com](http://www.theleadingsolutions.com)





AYUSH DIGITAL SOLUTIONS  
(OPC) PVT. LTD.



+91 8448715437



Team@ayushdigitalsolutions.com



www.ayushdigitalsolutions.com

## OFFER LETTER

Dear Aman Mishra

Congratulations!

We are thrilled to extend an offer to you to join Ayush Digital Solutions as an Intern. We believe that your skills, enthusiasm, and fresh perspective will make a valuable contribution to our team.

**Internship Position: Video Editor Intern**

**Start Date: 18 September 2023**

**Duration: 3 months**

- ROLES, RESPONSIBILITIES, AND PERKS ARE AS PER THE DISCUSSION
- YOU WILL RECEIVE A CERTIFICATE OF COMPLETION AFTER THE SUCCESSFUL COMPLETION OF THE INTERNSHIP.

To accept this offer, please sign and return the enclosed copy of this letter, indicating your commitment to the internship.

Your internship promises to be a valuable learning experience, and we are excited to see your contributions to our organization.

Once again, congratulations on your selection, and we anticipate your positive response.

Sincerely,

**AYUSH TAYAL**

**Director**



@ayushdigitalsolutions



ayush-digital-solutions





**AYUSH DIGITAL SOLUTIONS**  
(OPC) PVT. LTD.

+91 8448715437  
Team@ayushdigitalsolutions.com  
www.ayushdigitalsolutions.com

## OFFER LETTER

Dear Mansi Pal

**Congratulations!**

We are thrilled to extend an offer to you to join Ayush Digital Solutions as an Intern. We believe that your skills, enthusiasm, and fresh perspective will make a valuable contribution to our team.

**Internship Position: PR Intern**  
**Start Date: 18 September 2023**  
**Duration: 3 months**

- ROLES, RESPONSIBILITIES, AND PERKS ARE AS PER THE DISCUSSION
- YOU WILL RECEIVE A CERTIFICATE OF COMPLETION AFTER THE SUCCESSFUL COMPLETION OF THE INTERNSHIP.

To accept this offer, please sign and return the enclosed copy of this letter, indicating your commitment to the internship. Your internship promises to be a valuable learning experience, and we are excited to see your contributions to our organization.

Once again, congratulations on your selection, and we anticipate your positive response.

Sincerely,

**AYUSH TAYAL**  
Director



 @ayushdigitalsolutions  
 ayush-digital-solutions





# शिवाजी कॉलेज (दिल्ली विश्वविद्यालय) Shivaji College (University of Delhi)

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## North East Cell Parliament Complex Visit on 20th March 2024

### Report of Experiential Field Study to the Parliament Complex

The North East Cell of Shivaji College, under the aegis of the IQAC, undertook an experiential field study to the Parliament Complex on 20th March 2024. The team consisted of 22 students and 3 teachers from the NE Cell. Mr. Rakesh Kumar, Assistant Security Officer, provided an exhaustive and patient guidance during the tour.

The group visited the **Central Hall**, the **Samvidhan Sadan** (old Parliament building) and the **Sansad Bhavan** (new Parliament complex). The field study ended with a sumptuous lunch in the Parliament Canteen.

The NE Cell is grateful to our Principal, Prof. Virender Bhardwaj, for his support and encouragement towards the field study.

*S. Hangzo*

Dr Siamlianvung Hangzo  
Convenor  
North East Cell

LIST OF TEACHERS AND STUDENTS  
NORTH EAST CELL SHIVAJI COLLEGE (UNIVERSITY OF DELHI)

Sr. No.	Name	Course	Semester	College Roll	Ph. No	Aadhar	Signature
1	Y. Dicsen Singh	BA (H) Geography	SEM 2	23/31055	6297055354	203558113548	
2	Kh. Talbanganba	BA Prog( English+Sociology)	SEM 2	23/49103	8974456853	702270129347	
3	Letngaisang Kipgen	BA (H) Political Science	SEM 6	21/40034	8448461332	9360 2754 6533	
4	Chumchanthung S Ngulie	BA Prog ( English+Sociology)	SEM 2	23/49061	9233905421	603635541052	
5	Kevin Thangvanlaimuon Gangte	B. Sc (H) Mathematics	SEM 6	21/17134	8415029576	902341987462	
6	Yi Rahavei Abel	BA Prog (History+ Political Sc.)	SEM 4	22/49163	9362108721	926278622491	
7	P M Riba	BA Prog ( Eng+ Sociology)	SEM 2	23/49142	7630029455	750964033751	
8	Keisham Suchitra Devi	BA Prog (English+ Sociology)	SEM 2	23/49100	9366508697	894814972126	
9	Krishnali Boruah	B.Sc. Life Science	SEM 4	22/23042	6003274201	242445781069	
10	Nacho Taba	BA Prog (History + Political Science)	SEM 4	22/49203	9233096969	9745 1575 0857	
11	Tribeni Sharma	B.Sc (H) Botany	SEM 4	22/09022	9085652712	327058277565	
12	Ruchamita Hazarika	BA (H) Political Science	SEM 2	23/40052	7896210657	735212448093	
13	Aheibam Biligates Singh	BA (H) Economics	SEM 2	23/28005	9863381282	498485872679	
14	Nobi Gangte	BA (Prog) Eco + Socio	SEM 4	22/49053	9882404072	9473 2914 1595	
15	Pamuk Mara	BA (Prog) Geo+Hindi	SEM 4	22/49117	7428876291	605762882847	
16	Nikon Goswami	BA (H) Geography	SEM 4	22/31032	9395704547	553145487392	
17	Kendriang Panmei	BA (Prog) Eng+Socio	SEM 2	23/49101	8863491313	8130 5544 9965	
18	Laishram Pratap Singh	BA (Prog) Eng+Socio	SEM 4	22/49005	9233125005	502013130201	
19	Diya Jain	BA (H) Political Science	SEM 2	23/40016	8822587623		
20	PF Lepthoyini	BA (H) Political Science	SEM 6	21/40060	6009713107	916958104987	
21	Kendy	B.Com (Prog)	SEM 6	21/50157	8787471234	2657 9256 1853	
22	Sonim Ramshan	B.Com (Hons)	SEM 6	21/51201	8131905824	518006863829	
21	Dr Siamlianvung Hangzo	English			9968289113	738667622242	
22	Dr L. Gitarani Devi	English			9071129735	763423030630	



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Photographs of Parliament Visit







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ENACTUS  
SHIVAJI COLLEGE

GLOBAL HANDWASHING DAY EVENT  
DATE: 15<sup>TH</sup> OCTOBER 2023

NAME OF THE EVENT: GLOBAL HANDWASHING DAY EVENT  
DATE: 15<sup>TH</sup> OCTOBER 2023

OBJECTIVE: TO SPREAD AWARENESS ABOUT THE IMPORTANCE OF PROPER HANDWASHING AND PROPER HYGIENE ON THE GLOBAL HANDWASHING DAY AMONG GENERAL PUBLIC

OUTCOME: WE PERFORMED A FLASHMOB ALONG WITH A QUIZ ON HANDWASHING TO INTERACT WITH THE GENERAL PUBLIC AND SPREAD AWARENESS ABOUT PROPER HANDWASHING TECHNIQUES. BOTH QUIZ AND FLASHMOB WAS A SUCCESS AND WE WERE ABLE TO CONVEY THE MESSAGE OF IMPORTANCE OF HANDWASHING.

POSTER



*Chiranjeev Sharma*



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**LIST OF ATTENDEES**

SNIGHDA SETHI	President (Ba Eco Hons., 3 <sup>rd</sup> year)
LAKSHAY SETH	General Secretary (BBE, 3 <sup>rd</sup> year)
PRERNA VIJAY	Vice President (Bcom prog., 3 <sup>rd</sup> year)
AYUSH TIWARI	Operations Head (Bcom, 2 <sup>nd</sup> year)
DRISHTI PRASHAR	Core Member (Bcom, 2 <sup>nd</sup> year)
RIYA ARORA	Social Media Head (Bcom Hons, 2 <sup>nd</sup> year)
TEJASVI RAZDAN	Editorial Head (Bcom, 2 <sup>nd</sup> year)
SATVIK SINGLA	Finance head (Bcom, 2 <sup>nd</sup> year)
INIKA MAKHIJA	Business Plan Head (Ba History Hons, 3 <sup>rd</sup> year)
MANAS KASHYAP	Core Member (Ba Eco program, 2 <sup>nd</sup> year)
KATYANI SHARMA	Photography Head (Ba Political Science Hons., 3 <sup>rd</sup> year)
KSHITU DAS	Project Head- Diritih (Bsc Zoology Hons, 2 <sup>nd</sup> year)
SANYA CHAWLA	Business Plan Head (Bbe, 2 <sup>nd</sup> year)
RUCHI ARORA	Technical Head (Bcom Hon., 3 <sup>rd</sup> year)
SUKRITI BHAGAT	Project Head- Sana (Bcom hons, 2 <sup>nd</sup> year)
JOEL CHAMATHI MOHAN	Research Heads (Bcom Hons., 2 <sup>nd</sup> year)
AKSHAT WALIA	Operation Team (Bcom hons, 1 <sup>st</sup> year)
ANIKET	Social Media Team (Bbe, 2 <sup>nd</sup> year)
SHANISHTH M KESARWANI	Team Diritih (Bcom prog., 1 <sup>st</sup> year)
MANSI CHAUDHARY	Social Media Team (Ba English Hons., 2 <sup>nd</sup> year)
TANU	Social Media Team (Ba English Hons., 2 <sup>nd</sup> year)
GARVITA KHOSLA	Project Diritih (Bbe, 1 <sup>st</sup> year)
BHAVESH VIRMANI	Social Media Team (Bcom, 1 <sup>st</sup> year)

*Chhavi Sharma*





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KASHISH GARG	Social Media Team (Bcom Hons., 1 <sup>st</sup> year)
KHUSHI HALDER	Research Team (Bcom Hons., 1 <sup>st</sup> year)
JIYANSHI BATRA	Project Sana (Bcom Hons., 1 <sup>st</sup> year)
NIDHEESH KUKREJA	Technical Team (Ba Eco Hons., 1 <sup>st</sup> year)
ASHI SINGH	Research Team (Bsc Chemistry Hons., 1 <sup>st</sup> year)
SOMAY GUPTA	Business Plan (Bcom Hons., 3 <sup>rd</sup> year)
AAGAM JAIN	Operations Team (Bbe Hons., 1 <sup>st</sup> year)
ADITYA PRASAD	Operations Team (Bcom Hons., 1 <sup>st</sup> year)
RANVEER SINGH	Project Dritih (Bcom, 1 <sup>st</sup> year)
ISHANT SINGH	Social Media Team (Bbe Hons., 1 <sup>st</sup> year)
LAKSHAYA	Project Dritih (Bcom, 1 <sup>st</sup> year)
PRIYADARSHINI SINGH	Technical Team (Bbe, 1 <sup>st</sup> year)
SOUMYA KANSAL	Research Team (Bbe, 1 <sup>st</sup> year)
ANKIT SRIVASTAV	Public Relations (Bcom, 2 <sup>nd</sup> year)
PRIYANSHI GOEL	Project Sana (Bbe, 1 <sup>st</sup> year)
YASHTI GANDHI	Research Team (Ba Eco Hons., 1 <sup>st</sup> year)
AVNI JAIN	Project Sana (Bbe, 1 <sup>st</sup> year)
KANISHKA GOEL	Project Dritih (Bcom Hons., 1 <sup>st</sup> year)
HARSH VERMA	Project Dritih (Bcom Hons., 1 <sup>st</sup> year)
VERSHA	Research Team (Bcom Hons., 1 <sup>st</sup> year)
DIYA JOSHI	Project Sana (Bcom, 1 <sup>st</sup> year)
ANIKA CHAWLA	Social Media Team (Bcom Hons., 1 <sup>st</sup> year)
ISHA JAIN	Public Relations (Ba Eco Hons., 1 <sup>st</sup> year)
KULSHRESHTH GOSWAMI	Public Relations (Bcom, 1 <sup>st</sup> year)
SAYANK SINGH DHUNNA	Operation Team (Bcom, 1 <sup>st</sup> year)
VAASUDEV GAHLOT	Operations Team (Bcom Hons., 2 <sup>nd</sup> year)

*Chauhan*



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YASH SINGHAL	Project Sana (Bbe , 2 <sup>nd</sup> year)
ADITYA SINGH	Operations Team (Bcom Hons.,1 <sup>st</sup> year)
YATHARTH RAJ KAKKAR	Operations Team (Bcom , 2 <sup>nd</sup> year)
AMAN JHA	Project Sana (Bcom Hons.,1 <sup>st</sup> year)
AYUSH ATRI	Research Team (Bcom Hons.,1 <sup>st</sup> year)
DIVYANSH KHANNA	B. Com hons
SHREYA MUKUNTHAN	Geography hons
TAMANNA	English hons
SHIVAM BERRY	Editorial Team (Ba Eco Hons.,1 <sup>st</sup> year)

## REPORT

Enactus Shivaji along with Sulabh School Sanitation Club organized The Global Handwashing Day Event on 15<sup>th</sup> October 2023 at Connaught Place, New Delhi where we presented a flashmob and held a quiz for the public. People who gave the correct answers were awarded with a badge along with a soap bar.

## SUMMARY OF THE EVENT

The event commenced at 4pm with an enthusiastic choreography on self composed songs. The lyrics of the song portrayed the essence of cleaning our hands and how handwashing is a simple yet powerful action. These songs also convey the proper technique of washing our hands.



*Chhavi Sharma*





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## ARDENT PERFORMANCE BY THE MEMBERS

We sparked an interactive discussion with the present audience by asking them questions related to hand hygiene and if they answered correctly they were awarded a badge along with a soap bar as a token of appreciation.



## QUIZ WITH THE AUDIENCE

Since germs can spread by handshakes or by touching foreign objects, not only does hand washing protect us, but it also protects those around us. Therefore to further engage with people around us, we prepared banners and props in the form of germs, water and soap.



*Chauhan*



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## BANNERS PREPARED BY OUR TEAM

We performed the flashmob at regular intervals of 10-15 minutes which was again followed by a quiz interaction with the crowd. The crowd raised various slogans of their own which were chanted throughout the event. The people who emerged as the best in this slogan writing competition were awarded with cash prize.



## BADGE AND SOAP BAR AWARDED TO THE WINNERS

Through this event we could make people aware that amidst the hustle bustle of our daily lives washing hands is not merely a cleaning activity but it is actually a significant step that prevents the spread of various diseases.



*Chiranjeev Sharma*





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Overall the event was a great success!. We were able to engage with a lot of people and spread awareness about Global Handwashing Day in an interactive yet informative manner.



*Chhavi Sharma*

Dr. Chhavi Sharma  
Convener, Enactus  
Shivaji College, University of Delhi



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**NATIONAL SERVICE SCHEME: SWACHHATA HI SEVA  
CAMPAIGN (24.09.23 to 01.10.23)**

**"SWACHHATA HI SEVA CAMPAIGN"**

24.09.23 to 01.10.23

**OBJECTIVE:** The idea behind this exercise was to sensitise students towards the cause of cleanliness.

**OUTCOME:** By imparting hands-on experience to students, participants became conscious about their civic responsibilities towards the society.

**EVENT POSTER:**

SHIVAJI COLLEGE, UNIVERSITY OF DELHI  
(Accredited by NAAC with 'A' Grade)

**NATIONAL SERVICE SCHEME**  
under the aegis of IQAC, is celebrating

**"Swachhata Hi Seva"**  
**CAMPAIGN FOR GARBAGE FREE INDIA**  
24th September 2023 - 30th September 2023

**ACTIVITIES:**

- Clean India 3.0 Plog Run
- Swachhata Pledge
- Online Poster Making Competition
- Nukkad Natak by Yatharth
- Tree Plantation
- Online Quiz & Awareness Posts
- Cloth Bag Distribution
- Paper Recycling Workshop

SCAN FOR MORE INFO  
FOR FURTHER QUERIES  
CONTACT MEENAKSHI  
(PRESIDENT): 7678355838

Prof. Ruchira Dhingra  
NSS Programme Officer

Prof. Virender Bhardwaj  
Principal





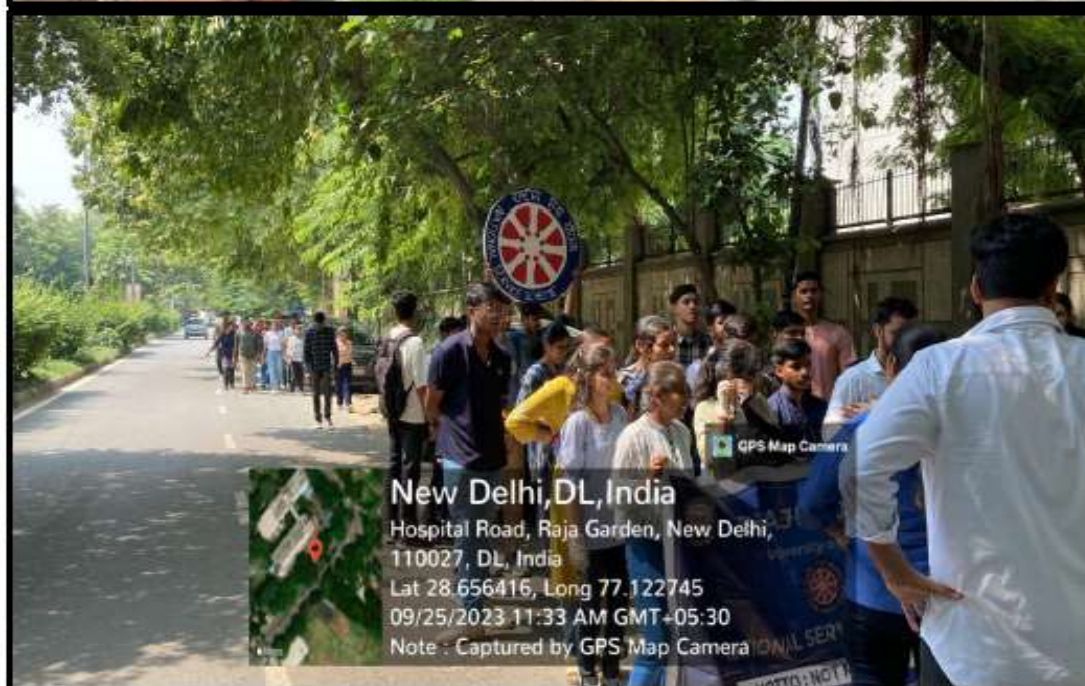
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EVENT PHOTOGRAPHS:



\*NSS volunteers participated in "Swachhata Pledge" & "Clean India Plog Run"

*R. Chit*



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### NUMBER OF ATTENDEES AND FEEDBACK (24-30 September 2023): 51

Event — Swachhata Pledge & Plog Run

S.NO.	NAME	ROLLNO	COURSE/YEAR	FEEDBACK	SIGN
1	Ravi Kumar	21/43101	B.A Prog.	Nice	[Signature]
2	AKSHAY	22/45005	B.A Pol	Good	[Signature]
3	Etha Sharma	21/50212	B.com Prog.	Good	[Signature]
4	Ashish	21/50073	B.Com Prog	Very Nice Initiative	[Signature]
5	Shreya Shukla	21/49096	B.A Prog	Good initiative	[Signature]
6	Harshita	22/49092	B.Sc. Phys-H	Nice	[Signature]
7	Ishanika	22/23034	B.Sc life Science	outstanding	[Signature]
8	Sandhya Nayak	22/13041	B.Sc (H) Physics	Excellent	[Signature]
9	Saurabh Pat	22/13042	B.Sc (H) Physics	Excellent	[Signature]
10	Shambhavi	22/13052	B.Sc (H) Physics	Nice	[Signature]
11	Bhaskar Sanjay	22/13045	B.Sc (H) Physics	Nice	[Signature]
12	Pooja	21/40049	BA (Hons) Pol. Sci.	Good	[Signature]
13	Mehak	21/50153	B.com (P)	Good	[Signature]
14	Namita	21/50187	B.com (P)	Nice	[Signature]
15	Syed Saad	22/31053	BA (H) Geography	Nice	[Signature]
16	Simran Kaur	22/23053	B.Sc Life Science	enjoyed the event	[Signature]
17	Pooja	21/49245	BA Program	Nice	[Signature]
18	Hetankumar	22/29014	BA English Hons	Nice	[Signature]
19	Sneha Kumar	22/29022	BA English Hons	Amazing	[Signature]
20	Hritika Gupta	23/43016	BA Sanskrit Hons	Nice	[Signature]





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Contd...

S.NO.	NAME	ROLLNO	COURSE/YEAR	FEEDBACK	SIGN
21	Chiranjeev Bhatnagar	22/50022	B.com / 2 <sup>nd</sup>	WSS's today's event was great and informative.	<i>[Signature]</i>
22	Tyagvi Raghav	22/50022	B.com / 2nd year	It was a great event looking forward to more.	<i>[Signature]</i>
23	Sandhya	22/51092	B.com (Hons) / 2 <sup>nd</sup> year	It was nice event.	<i>[Signature]</i>
24	Kritika	22/51061	B.com (Hons) / 2 <sup>nd</sup> yr	great event	<i>[Signature]</i>
25	Akshat Singh	22/51083	B.com Hons / 2 <sup>nd</sup> yr	good	<i>[Signature]</i>
26	Anant Raj	22/40069	Ph. Sci Hons / 2 year	good	<i>[Signature]</i>
27	Rishvi	22/51089	B.com (H) / 3 <sup>rd</sup> year	very good	<i>[Signature]</i>
28	Ansh	21/51101	B.com (H) / 3 <sup>rd</sup> year	very good	<i>[Signature]</i>

S.NO.	NAME	ROLLNO	COURSE/YEAR	FEEDBACK	SIGN
29	Ashwika	22/23075	B.Sc. Upe Sci (P)	Great event	<i>[Signature]</i>
30	Pooja Sami	22/23055	"	good	<i>[Signature]</i>
31	Pratibha	22/44703	B.A. programme	Nice	<i>[Signature]</i>
32	Shweta	22/49193	B.A. programme	Nice	<i>[Signature]</i>
33	Shweta Singh	21/31022	B.A. Geography (Hons)	Nice	<i>[Signature]</i>
34	Aniket Thakur	22/19004	B.Sc. (H) Physics	Nice event	<i>[Signature]</i>
35	Rishav Raut	22/19056	B.Sc. (H) Physics	Nice Experience	<i>[Signature]</i>
36	Rahul Mehra	22/19039	B.Sc. (H) Physics	Nice Experience	<i>[Signature]</i>
37	Khashi Sharma	21/63055	B.Sc. CS	Great initiative	<i>[Signature]</i>
38	Anjali Pandey	21/10051	B.A. Pol. Sc. (H)	Nice event	<i>[Signature]</i>
39	Ashwika Mehra	2031	BBE	Great event	<i>[Signature]</i>
40	Anushka Kapoor	51117	B.com (H)	Great event	<i>[Signature]</i>

*[Signature]*



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S.NO.	NAME	ROLLNO	COURSE/YEAR	FEEDBACK	SIGN
41.	Deepika	21/11046	final year B.com(m)	Good Event Great Initiative	<u>deepika</u>
42.	Tanuj Bhatti	22/31054	2nd year BA (Hons) Home	Great event, really appreciate it	<u>Tanuj</u>
43	Mohd Haseem	22/23045	2nd year B.Sc Life Sciences	Great Initiative love the event	<u>Mohd</u>
44	Rishabh	22/23020	1st year History (Hons)	Great Initiative	<u>Rishabh</u>
47	Deepanshu Dabas	21/49073	3rd Year B.A. (Hons)	Clean India, Green India	<u>Deepanshu</u>
48	Ashish	21/23072	3rd year B.Sc Life Sci.	Mena dash mangeela	<u>Ashish</u>
49	Shruti Gupta	21/63101	B.Sc APS	Great	<u>Shruti</u>
50	Ms. Harunad	21/63081	B-SAPB	Good	<u>Harunad</u>
51	Sncha	22/229040	BA (Hons)	Nice	<u>Sncha</u>

### NUMBER OF ATTENDEES AND FEEDBACK (1<sup>st</sup> October 2023): 84

NATIONAL SERVICE SCHEME					
EVENT NAME: Ek Tareekh, Ek Gharana Campaign (Kashmiriata Hi Seva)					
EVENT DATE: 01-October-2023					
ATTENDANCE/FEEDBACK					
S.NO.	NAME	ROLLNO	COURSE/YEAR	FEEDBACK	SIGN
1.	Samarth Kumar	22/11009	2nd year	Very nice event. People get aware.	<u>Samarth</u>
2.	Ravi Kumar	21/49101	3rd year	Very nice. I expect more such events. Good job all Shivaji	<u>Ravi</u>
3.	Sandhya Nayak	22/11041	2nd year	Very nice. I expect more events.	<u>Sandhya</u>
4.	Pragati Khatwal	22/40158	2nd year	Excellent get huge awareness	<u>Pragati</u>
5.	Apurva Yadav	22/23051	3rd year	Excellent	<u>Apurva</u>
6.	Kritika	22/11001	2nd yr	Amazing experience	<u>Kritika</u>
7.	Barkat Ali	22/23020	2nd yr	Good experience	<u>Barkat</u>
8.	Ashna Khatra	22/23095	2nd year	Good event	<u>Ashna</u>
9.	Anjali Choudhary	22/23013	2nd year	Excellent	<u>Anjali</u>
10.	Sanjiv	22/63019	2nd year	Excellent	<u>Sanjiv</u>
11.	Pammi	21/40042	3rd year	Good	<u>Pammi</u>
12.	Neha	22/40079	3rd year	Good	<u>Neha</u>

*Rs. Chait*





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S.NO.	NAME	ROLL NO.	COURSE/YEAR	FEEDBACK	SIGN
13.	Alankar Chaudhary	21/49049	B.A. Prog.	Good	Alankar
14.	Shreya Dwivedi	22/49087	BA Programme	Excellent	Shreya
15.	Khushi Sharma	21/49050	B.Sc CS	Great	Khushi
16.	Hanshi Goyal	23/2022	B.EE Honours	Very Knowledgeable	Hanshi
17.	Amita Pasika	23/49153	B.A. Programme	Very Nice	Amita
18.	Chirvi Saini	23/51046	B.Com (Hons)	GREAT	Chirvi
19.	Yash Garg	22/49242	BA Prog	GREAT	Yash
20.	Nandana Vijayan	21/49004	BA Prog	Knowledgeable	Nandana
21.	Vijay	2202/49146	TOU	Good	Vijay
22.	Yashvi Kishor	22/49209	BA Program	Good	Yashvi
23.	Ananya Yadav	27-2707	N.C.C.	Good	Ananya
24.	Rajni	277911	N.C.C.	Good	Rajni
25.	Shivani	107	N.C.C. (Shivaji)	Good	Shivani
26.	Diksha	076	Shivaji NCC	Good	Diksha

S.NO.	NAME	ROLL NO.	COURSE/YEAR	FEEDBACK	SIGN
27.	Aniket	22/14004	B.Sc (H) Physics 2nd year	Event was good	Aniket
28.	Shubham	22/13045	B.Sc (H) Physics 2nd year	It was amazing	Shubham
29.	Anant	22/40088	BA BSc (H)	Good	Anant
30.	Rahul	22/14033	B.Sc (H) Physics	Good	Rahul
31.	Sandhya	22/50974	B.Com (Hons)	The event was very nice	Sandhya
32.	Pulkit	22/51083	B.Com (Hons)	Event was to great awareness	Pulkit
33.	Safar	22/23068	B.Sc Life Sciences	Event was very good	Safar
34.	Gaurav Rai	22/6245	B.Sc APS/CS	Good	Gaurav Rai
35.	Vansh	23/36057	B.A History (Hons)	Very good	Vansh
36.	Sachin	21/51089	B.Com (H)	Very good	Sachin
37.	M.D Anshu	21/40077	B.A (H) Political Sci.	Fantabulous	Anshu
38.	Shuchi Lathi	22/49136	BA Programme	Was amazing event	Shuchi
39.	Pragati	23/49146	BA Programme	Fabulous	Pragati
40.	Mohd Hassan	22/23045	B.Sc Life Sciences	Very good	Mohd Hassan

R. Chait



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S.NO.	NAME	ROLLNO	COURSE/YEAR	FEEDBACK	SIGN
41.	Shambhavi Yadav	22/19052	BSc. Physics (Hons) IInd Year	Good	Shambhavi
42.	Deep Shikha	22/31016	BA (Hons) Geography	Best	Deep Shikha
43	Rishav Rawat	22/19056	B.Sc. Physics (Hons)	It was Great	Rishav
44	Alisha Kuman	21/31040	B.A. Hons. Geo.	Great Exp.	Alisha
45	Pratham Singh	22/49079	B.A. Engg	Good	Pratham Singh
46	Prachi Shukhanda	22/40047	BA (H) Pol Sci	Nice	Prachi
47	Surej Shrivastava	21/63002	BSc APS	Good	Surej
48	AKshunn	22/40005	BA (H) Political Science	Good	AKshunn
49	Hritik Tomar	21/40011	B.A (H) Political Science	It was Amazing	Hritik
50	Ankit	21/51101	Bcom (H)	Awesome One	Ankit
51	Pratibha	22/49103	B.A. prog. (Geo + Pol Sci)	Nice	Pratibha
52	Deepika	21/51076	Bcom (H)	Awesome	Deepika
53	Nehul Bedi	23/49135	B.A. Program C Geo + Pol Sci 1st year	Really Wonderful	Nehul Bedi
54	Sarthak	23/01008	BSc (Hons) Botany	Wonderful	Sarthak

Dr. Anshu





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S.NO.	NAME	ROLL NO	COURSE/YEAR	FEEDBACK	SIGN
55	Talraj Goswami	22/310 54	BA.(H) Geography 2nd Year	Very nice event and loved to be part of this event.	Talraj
56	Ektas Sharma	21/50212	B.Com Prog 3rd year	nic, They worked really hard	Ektas
57	Anchal Gupta	21/25032	B.Sc. Life Science 3rd year	Amazing	Anchal
58	ANUSH DALAL	22/51011	B.Com (hons)	Good event	ANUSH
59	Paras Icumar	22/112018	B.Sc.(H) Mathematics	Amazing	Paras
60	Vipul Yadav	22/63043	B.Sc. AFS with CS	Good	Vipul Yadav
61	Gul Shamma	22/7032	BSc Maths Hons	Amazing event	Gul
62	Anushka	22/17014	BSc(H) Maths	Good experience	Anushka
63	Deepanshu Dabas	21/49023	BA Prog.	Extremely informative & fun!	Deepanshu
64	Gauri	21/09041	Bsc(H) Botany	Good	Gauri
65	Jishyanti Raj Purohit	22/43074	B.A. Regg.	Had a great experience and was excited to participate	Jishyanti
66	Ashmita Mehra	21/2031	BRE	Insightful	Ashmita
67	Nupur	B2LSWA 650043	B.A.	Amazing	Nupur
68	Divya Rittal	DL4SWA 650014	B.com Prog	Good !!	Divya

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S.NO.	NAME	ROLL NO	COURSE/YEAR	FEEDBACK	SIGN
69	Piyush Kumar	21/3030	History/Hons) 2 <sup>nd</sup> year	Good	Piyush Kumar
70	Shanu	22/3051	BEE II year	very enthusiastic play & while NSS contribution	Shanu
71	Ayomesh Kumar Mishra	219789	II year B-Low (H)	Good	Ayomesh
72	Ayushi	22/19094	BA Prog	Nice	Ayushi
73	Srishti		B-com	good	Srishti
74	Areena	21/33013	Hindi Hon.	very good	Areena
75	Indrajit	NCC	NCC shivaji	well organized!	Indrajit
76	Ravani	NCC	NCC shivaji	very good	Ravani
77	Vikas	NCC	NCC shivaji	Very Good	Vikas
78	Rishabh	NCC	NCC shivaji	very Good	Rishabh
79	Sunny Kr. Hansam	NCC	B-Low (Prog)	Excellent	Sunny
80	Kanuk	22/63009	B.Sc (APS) with CS	Excellent	Kanuk
81	Jaskhyon	21/63008	B.Sc (APS) with CS	Excellent	J. Choudhary
82	Anabita	20/63120	B.Sc (APS) with CS	good	Anabita

S.NO.	NAME	ROLL NO	COURSE/YEAR	FEEDBACK	SIGN
83	Kethavath Gistharu	22/49005	B.A prog	Very good inspiration for serving common people	Kethavath
84	Maseera Siddiqui	22/31029	BA hons Geog	Event was well organised good initiative	Maseera

R. Choudhary





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**REPORT:**

NSS Unit, Shivaji College took a step towards a greener India by organising a tree plantation drive to commemorate NSS Day on 24th September 2023.

On 25<sup>th</sup> September 2023, NSS Unit organised a Swachhata Pledge and Clean India Plog Run 3.0 under the week-long "Swachhata Hi Seva" campaign. The event served as a powerful reminder of our collective responsibility to keep our surroundings clean. This event exemplified the "Swachhata Hi Seva" initiative's objectives and showcased the commitment of our volunteers and community members to a cleaner, healthier future.

On 26<sup>th</sup> September 2023, the National Service Scheme unit of Shivaji College organised a Nukkad Natak titled "Swachhata Banaam Samaaj" around the college campus. The primary significance of the play performed by the team YATHARTH was to create awareness of cleanliness and hygiene and to illuminate the invaluable efforts of Safai Mitras in keeping our surroundings clean. This captivating performance delivered a powerful message through a compelling storyline and engaging characters. This event took place under the "Swachhata hi Seva" campaign for garbage free India.

The NSS unit of Shivaji College on 28 September 2023 conducted a Public Place Cleanliness Drive under the Swachhata Hi Seva Campaign. The NSS volunteers cleaned public places like the streets, bus stands and footpaths. The volunteers also spread awareness amongst the people about cleanliness and proper ways of disposing of waste.

The NSS unit of Shivaji College on the 29th September 2023 organised a "Cloth Bag Donation Drive" to spread awareness about the importance of sustainability. The unit distributed cloth and jute bags in the Rain Basera near the Ring Road, Raja Garden and shopkeepers near college campus. The volunteers also explained the harmful effects of plastic bags. The residents of the Rain Basera and shopkeepers were happy to receive the cloth and jute bags and enthusiastically engaged in conversation with the NSS members about sustainable methods. The drive was successful not only in spreading awareness about sustainability but also in spreading kindness towards the deprived sections of the society.

On 1<sup>st</sup> October 2023, NSS unit under the programme "Ek Tareekh Ek Ghanta" embarked on a campaign for a garbage-free India. It organised a Cleanliness and Awareness Drive alongside a Plog run and a Nukkad Natak by the Yatharth team.

The plog run started from the college campus and 84 NSS Volunteer along with teachers proceeded towards the slum area of Raghuvir Nagar. On the way, the students including teachers picked up plastic and other waste and swept clean two public parks. They also interacted with people on the way to spread awareness about the importance of cleanliness and environmental sustainability.

At the central chowk of Raghuvir Nagar, the Yatharth team enacted a street play which spread the message of fostering hygiene, sanitation, and environmental awareness.

The campaign ended as a commendable initiative that not only enhanced the cleanliness of the chosen location but instilled a sense of responsibility and pride in maintaining cleanliness and building healthier and more responsible communities among the people.

*For Chair*



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**NATIONANAL SERVICE SCHEME: MERI MAATI MERA DESH” 13.08.23 to 31.10.23**

## “MERI MAATI MERA DESH”

13.08.23 to 31.10.23

**OBJECTIVE:** The program was visualised around the objective of inculcating and arousing the sentiment of love and dedication towards our nation.

**OUTCOME:** By being part of this exercise, students felt a sense of pride towards their nation and their own self.

### EVENT POSTER:

**SHIVAJI COLLEGE, UNIVERSITY OF DELHI**  
(Accredited by NAAC with 'A' Grade)

**NATIONAL SERVICE SCHEME**  
is celebrating

**MERI MAATI MERA DESH**

**"Mitti ko Naman, Veeron ka Vandan"**  
campaign initiated by the Government of India to commemorate  
**77th INDEPENDENCE DAY**

**INITIATIVES**

- Har Ghar Tiranga ..... 13-15th August, 2023
- Vasudha Vandhan (Amrit Vatika) ..... 15th August, 2023
- Flag Hoisting & Rashtragaan ..... 15th August, 2023
- 'Panch Pran' Pledge ..... 15th August, 2023
- Veeron Ka Vandan (with Col. Abdul H. Khan) ..... 15th August, 2023
- Shilaphalakam (Memorial Plaque) ..... 15th August, 2023
- Prabhat Pheri ..... 17th August 2023

Prof. Ruchira Dhingra  
Programme Officer

@f@ @NSSSHIVAJI

Prof. Virender Bhardwaj  
Principal



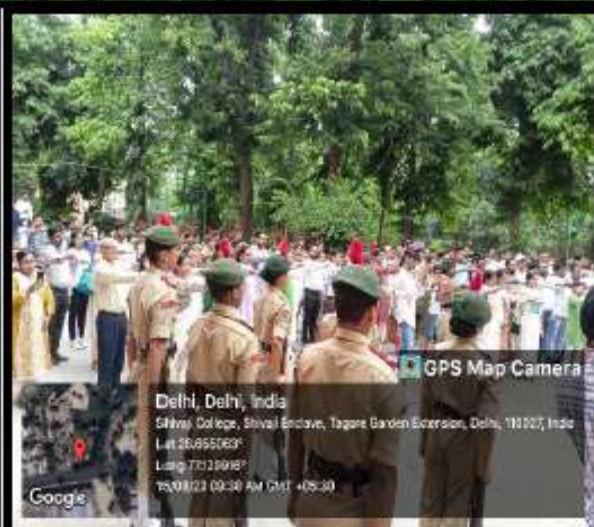


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EVENT PHOTOGRAPHS:



\* NSS Volunteers participated in "Meri Maati Mera Desh Campaign"



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### NUMBER OF ATTENDEES AND FEEDBACK: 41

NATIONAL SERVICE SCHEME					
EVENT NAME: Prabhat Phere (Mere Mauti Mere Aash)					
EVENT DATE: 17-03-2023					
FEEDBACK					
S.NO.	NAME	ROLLNO	COURSE/YEAR	FEEDBACK	SIGN
1	Arush Yadav	21/3051	B.A (Hons) Geography	Nice	Arush
2	Ashish Kumar	21/3040	"	"	Ashish
3	Anirudh Tandon	21/3089	"	"	Anirudh
4	Pooja	21/49245	B.A. (Prog)	Good	Pooja
5	Agami	21/40047	B.A. (Hons) Political	Good	Agami
6	Rita Sharma	21/50212	B.Com Prog	Nice	Rita
7	Ashish Kumar	21/49099	B.A. (Hons)	Good	Ashish
8	Ashutosh	21/50073	B.Com Prog	Very Nice & Successful	Ashutosh
9	Ankit	21/51101	B.Com (H)	"	Ankit
10	Sorbin	21/51089	B.Com (H)	"	Sorbin
11	Nawita	21/50187	B.Com (P)	Good	Nawita
12	Mehak	21/50153	B.Com (P)	Good	Mehak
13	Anushika	21/53054	B.A	Good	Anushika
14	Yash Goyal	22/49242	B. ALP	Good	Yash
15	Arush Gupta	21/62101	B.Sc - APS	Good	Arush
16	Saurav Singh	21/63072	"	Good	Saurav
17	Shruti Mishra	21/63003	B.A. Prog	Nice	Shruti
18	Shruti Shukla	21/49090	"	Nice	Shruti
19	Farah	21/51034	B.Com (Hons)	Good	Farah
20	Ashish Singh	21/53074	B.Sc Life Sciences	Good	Ashish
21	Shruti Singh	21/51022	B.A. Geography (Hons)	Good	Shruti
22	Namita	21/53024	B.Sc APS CS	Nice	Namita
23	Khushi Sharma	21/63053	B.Sc APS CS	Good	Khushi
24	Shruti Singh	21/53031	B.Sc	Good	Shruti
25	Ujjwal	21/49080	B.A (Prog)	Nice	Ujjwal
26	Arush	21/60001	B.A. (Hons)	Good	Arush
27	Bhisham	21/51012	B.A. (Hons)	Good	Bhisham
28	Shruti	21/51013	B.Com (Hons)	Nice	Shruti
29	Shruti	21/53010	Pol. Sci	Good	Shruti
30	Nishita	21/53011	"	Good	Nishita
31	Vishal	21/53012	"	Nice	Vishal
32	Pooja	21/63013	"	Nice	Pooja
33	Anjali	21/60001	"	Nice	Anjali
34	Chiranj	21/60001	"	Nice	Chiranj
35	Khushi	21/53013	Good	Good	Khushi
36	Shruti	21/53013	Good	Good	Shruti
37	Shruti	21/53013	Good	Good	Shruti
38	Shruti	21/53013	Good	Good	Shruti
39	Shruti	21/53013	Good	Good	Shruti
40	Shruti	21/53013	Good	Good	Shruti
41	Shruti	21/53013	Good	Good	Shruti

Ruchir





## REPORT:

The National Service Scheme unit of Shivaji College organised the "Har Ghar Tiranga" campaign under the "Meri Mati Mera Desh" initiative from August 13th to August 15th, 2023. NSS volunteers uploaded pictures with the Indian Tricolor flag reflect their pride and happiness for their motherland.

On the occasion of Independence Day, the National Service Scheme unit of Shivaji College, in collaboration with the National Cadet Corps unit, organised various programs on 15 August 2023 dedicated to the bravery and sacrifice of the country's brave heroes under the Government of India pledge "Meri Mati Mera Desh". Col. Abdul Hameed Khan graced the occasion with his esteemed presence as a guest speaker.

The event was inaugurated by Col. Abdul Hameed Khan and Principal Prof. Virendra Bhardwaj followed by the hoisting of the National Flag and singing of the National Anthem. The teachers and the volunteers then took the Panch Prana Pledge. The program proceeded with saluting the heroes of our country in which the words of Colonel Khan were inspirational in communicating the spirit of nationalism in the minds of the audience.

The program ended with the celebration of Amrit Vatika, promoting the spirit of nature conservation and patriotism, under which 75 trees were planted commemorating 75 years of independence.



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**"FIT INDIA SWACHHATA FREEDOM RUN 4.0"**

**11.10.23 and 16.10.23**

**OBJECTIVE:** The program was intended to work towards instilling the importance of sports and fitness activities in the minds of young India.

**OUTCOME:** By organising Fit India Freedom Run 1 and Freedom Run 2, students got motivated and invited the ethics of fitness in themselves.

**EVENT POSTERS:**



*Prof. Virender Bhardwaj*





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**EVENT-PHOTOGRAPHS:**



\* NSS Volunteers participated in "FIT INDIA SWACHHATA FREEDOM RUN 4.0"

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### NUMBER OF ATTENDEES AND FEEDBACK (11.10.2023): 60

\*Event Date: 11.10.2023 National Service Scheme (FEEDBACK)  
 \*Event Name: Fit India - Swachhata Freedom Run 4.0

S.NO.	NAME	ROLLNO	COURSE/YEAR	FEEDBACK	SIGN
✓1	Nishu Gupta	23/4516	Bachelor's Sanskrit lit	very good	Nishu Gupta
✓2	Shreya Dwivedi	22/4089	BA Prog	excellent	Shreya Dwivedi
✓3	Ekta Sharma	21/50212	B.com Prog	good	Ekta Sharma
✓4	Pratiksha	22/49105	B.A Prog	good	Pratiksha
✓5	Akshara	22/40005	B.A (H) Political Science	Nice	Akshara
✓6	Nikita	21/40090	BA (H) Political Science	Good	Nikita
✓7	Pammi	21/40047	BA (H) Pol. Sci.	Good	Pammi
✓8	Amya	21/40013	B.A (H) Pol. Sci.	Nice	Amya
✓9	Vansh	21/40085	BA (H) Pol. Sci.	Good	Vansh
✓10	Pragati	21/40026	B.A (H) Pol. Sci.	Good	Pragati
✓11	Nitin	22/49146	B.A Prog	Nice	Nitin
✓12	G. V. Saravali	23/49138	B.A Prog	Nice	G. V. Saravali
✓13	Jai Salunke	22/63019	B.Sc ARS CS	Nice okay okay	Jai Salunke
✓14	Kashvi	22/63021	B.Sc ARS CS	Nice	Kashvi
✓15	Pranav	22/63025	B.Sc ARS CS	Average	Pranav

Dr. Shipra Jain *Shipra Jain* Dr. Pooja Salunke *Pooja Salunke*

S.NO.	NAME	ROLLNO	COURSE/YEAR	FEEDBACK	SIGN
17	Mythi Karna	23/15130	BA (Hons) History	Good	Mythi Karna
18	Vishu	23/15080	BA (Hons) History	Good	Vishu
19	Nishant Goyal	22/28028	BA (H) Eco	Good	Nishant Goyal
20	Anil Agnihotri	22/49120	BA Prog	Good	Anil Agnihotri
21	Ashu Jain	21/20020	B.Sc Life Sciences	Good	Ashu Jain
22	Sandhya	22/51092	B.Com (Hons)	Nice event	Sandhya
23	Shikha	22/19015	B.Sc (H) Physics	Good	Shikha
24	Sandeep Singh	22/19045	B.Sc (H) Physics	Good	Sandeep Singh
25	Saurabh Pal	22/19042	B.Sc (H) Physics	Good	Saurabh Pal
26	Rahul Mishra	22/19039	B.Sc (H) Physics	Good	Rahul Mishra
27	Saurabh Kumar	22/19039	B.Sc (H) Physics	Good	Saurabh Kumar
28	Pranav	22/19045	B.Sc Life Sciences	Good	Pranav
29	Pradip Kumar	22/23024	B.Sc Life Sciences	Good	Pradip Kumar
30	Sandhya	22/19041	B.Sc (H) Physics	Good	Sandhya

Dr. Shipra Jain *Shipra Jain* Dr. Pooja Salunke *Pooja Salunke*

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S.NO.	NAME	ROLLNO	COURSE/YEAR	FEEDBACK	SIGN
31	Shruti Gupta	21/63101	B.Sc. APS	Good	Shruti
32	Hammad	21/63087	"	Good	Hammad
33	Hareli	23/2022	BEE (H)	Excellent	Hareli
34	Aryan	22/63007	B.Sc. APS C.S	Good	Aryan
35	Vipul	22/63048	B.Sc. APS C.S	Good	Vipul
36	Abhishek Yadav	22/49014	BA Prog.	Good	Abhishek
37	Harekhal	22/49140	BA Prog.	Good	Harekhal
38	Abhi Kumar	22/23058	Hindi (H)	Good	Abhi
39	Sagan Kr.	22/23066	B.Sc. Life Science	Excellent	Sagan
40	Abhishek	22/23007	B.Sc. Life Science	Excellent	Abhishek
41	Arpit Chaudhary	22/23000	B.Sc. Life Science	Excellent	Arpit
42	Kritika	22/51061	B.Com (Hons.)	Amazing	Kritika
43	Siddharth Raghav	23/28053	B.Sc. Life Science	Got new experience	Siddharth
44	Arshant Tishan	22/49183	BA Prog.	Good	Arshant
45	Yashu Kishore	22/49209	B.A. Prog.	Good	Yashu
46	Arshant	22/49140	B.A. Prog.	Good	Arshant
47	Tanya	22/23058	B.A. Prog.	Good	Tanya
48	Yashu	22/49202	BA Prog.	Good	Yashu

Dr. Shilpa  
21/63101

Dr. Pooja/Sanjay  
H

S.NO.	NAME	ROLLNO	COURSE/YEAR	FEEDBACK	SIGN
41	Gurpreet	23/40056	B.A (H) Pol Sci	wonderful event	Gurpreet
50	Shambhavi	22/19052	B.Sc. Phys (H)	Good	Shambhavi
51	Adarsh	21/49049	B.A. Prog.	Good	Adarsh
52	Aniket	22/19041	B.Sc. Phys (Hons)	Good	Aniket
53	Rishav	23/49056	B.Sc. Phys (Hons)	Nice	Rishav
54	Naman	21/63025	B.Sc. APS CS	Good	Naman
55	Sahar	21/33002	BA Hindi Hons	Nice	Sahar
56	Arshant	21/51117	B.Com (H)	Good	Arshant
57	Arshant	22/33004	B.A. Prog.	Nice	Arshant
58	Khushi	21/63017	B.Sc. CS	Good	Khushi
59	Souhin	21/51087	B.Com H	Good	Souhin
60	Meenakshi	21/33013	B.A. Hindi (H)	Good	Meenakshi

Dr. Shilpa  
21/63101

Dr. Pooja/Sanjay  
H

Dr. Shilpa



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### NUMBER OF ATTENDEES AND FEEDBACK (16.10.2023): 62

NATIONAL SERVICE SCHEME					
EVENT NAME: FIT INDIA-SNACKWATER FREEDOM RUN 4.0					
EVENT DATE: 16 Oct 2023					
FEEDBACK					
S.NO.	NAME	ROLLNO	COURSE/YEAR	FEEDBACK	SIGN
1.	Rishi Kumar	23/32058	B.A. (Hons)	Excellent	<i>[Signature]</i>
2.	Anand	22/49142	B.A. (Hons)	Good	<i>[Signature]</i>
3.	Sandhya	22/51042	B.Com (Hons)	Good	<i>[Signature]</i>
4.	Rishi Kumar	22/49141	B.A. (Hons)	Good	<i>[Signature]</i>
5.	Alka Singh	22/51047	B.Com (Hons)	Good	<i>[Signature]</i>
6.	Deepika	22/51046	B.Com (Hons)	Good	<i>[Signature]</i>
7.	Prachi	23/49144	B.A. (Hons)	Good	<i>[Signature]</i>
8.	Aditi	23/49145	B.A. (Hons)	Good	<i>[Signature]</i>
9.	Anurag Kumar	22/51049	B.Sc. Life Science	Good	<i>[Signature]</i>
10.	Sybil Anand	22/31053	B.A. (Hons) Geography	Good	<i>[Signature]</i>
11.	Harshita	22/19012	B.Sc. (Hons) Physics	Good	<i>[Signature]</i>
12.	Harshita	22/19011	B.Sc. (Hons) Chemistry	Good	<i>[Signature]</i>
13.	Somya Kumar	22/49043	B.A. (Hons) English	Good	<i>[Signature]</i>
14.	Harshita	22/49047	B.A. (Hons) English	Good	<i>[Signature]</i>
15.	Aditi	22/49043	B.A. (Hons) English	Good	<i>[Signature]</i>

S.NO.	NAME	ROLLNO	COURSE/YEAR	FEEDBACK	SIGN
16.	Harshita	21/49087	B.A. (Hons) English	Good	<i>[Signature]</i>
17.	Kritika	22/31061	B.Com (Hons)	Good	<i>[Signature]</i>
18.	Radika	22/23024	B.Sc. Life Science	Good	<i>[Signature]</i>
19.	Anjali Chaudhary	22/73013	B.Sc. (Hons) Chemistry	Good	<i>[Signature]</i>
20.	Harshita	22/10049	B.A. (Hons) English	Good	<i>[Signature]</i>
21.	Shreya Singh	21/49046	B.A. (Hons) English	Good	<i>[Signature]</i>
22.	Harshita	23/49032	B.A. (Hons) English	Good	<i>[Signature]</i>
23.	Sagun	22/22088	B.Sc. Life Science	Good	<i>[Signature]</i>
24.	Radika	22/49103	B.A. (Hons) English	Good	<i>[Signature]</i>
25.	Anurag	22/49045	B.A. (Hons) English	Good	<i>[Signature]</i>
26.	Anurag	22/49045	B.A. (Hons) English	Good	<i>[Signature]</i>
27.	Anurag	22/49045	B.A. (Hons) English	Good	<i>[Signature]</i>
28.	Anurag	21/23037	B.Sc. Life Science	Good	<i>[Signature]</i>
29.	Harshita	22/24014	English Hons	Good	<i>[Signature]</i>
30.	Anurag	22/24014	English Hons	Good	<i>[Signature]</i>
31.	Anurag	22/24014	English Hons	Good	<i>[Signature]</i>
32.	Anurag	22/24014	English Hons	Good	<i>[Signature]</i>
33.	Anurag	22/24014	English Hons	Good	<i>[Signature]</i>
34.	Anurag	22/24014	English Hons	Good	<i>[Signature]</i>

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# शिवाजी कॉलेज

(दिल्ली विश्वविद्यालय)

## Shivaji College

(University of Delhi)



NAAC ACCREDITED "A" GRADE COLLEGE

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S.NO.	NAME	ROLLNO	COURSE/YEAR	FEEDBACK	SIGN
35.	Chowdhury Aas	22/63015	B.Sc. APS/CS 2nd year	Average	Chowdhury Aas
36	Jai Selvaraj	22/63019	B.Sc. APS/CS 2nd year	okay	Jai Selvaraj
37	Anshu Raj	22/40069	BA Pol Sci (H)	Good	Anshu Raj
38.	Yashu Kaur	22/49209	BA Proj	Good	Yashu Kaur
39	Namrata Tumbane	22/49183	BA Proj	Good	Namrata Tumbane
40.	Mehar Kalra	21/50152	B.Com (P)	Nice	Mehar Kalra
41.	Myathi Kumbhar	22/2523	B.A. (Hon) H	Good	Myathi Kumbhar
42	Vishu	22/32054	B.A. (H) H	Good	Vishu
43	Namrata	21/50187	B.Com (P)	Good	Namrata
44.	Sandhya Nayak	22/13041	B.Sc (H) Physics	Good	Sandhya Nayak
45.	Laxman Yadav	22/13023	B.Sc APS with C.S	average and more dis. to the tree	Laxman Yadav
46	Annaman	22/63007	B.Sc APS C.S	Average	Annaman
47	Sachinbhai	22/19042	B.Sc (H) Physics	Good	Sachinbhai
48	Anshu Bhatia	22/14004	B.Sc (H) Physics	Good	Anshu Bhatia
49.	Srinivas	22/19045	B.Sc (H) Physics	Good	Srinivas
50.	Rishu	22/19039	B.Sc (H) Physics	Good	Rishu
51	G.V. So. Kumar	22/19040	B.Sc (H) Physics	Good	G.V. So. Kumar
52	Rishu	22/19056	B.Sc Physics (Hons)	Nice	Rishu
53	Samarth Kumar	22/19055	B.Sc. Physics (H)	Good	Samarth Kumar

S.NO.	NAME	ROLLNO	COURSE/YEAR	FEEDBACK	SIGN
54	Rishi Gupta	22/16	1st year B.A. (Hons) H	Good	Rishi Gupta
55	Jai Singh	22/242	2nd year B.A. (Hons) H	Good	Jai Singh
56	Naman	22/23	2nd year B.A. (Hons) H	Nice	Naman
57	Nandana	22/24	2nd year B.A. (Hons) H	Good	Nandana
58	Sirika	19015	2nd year Physics (H)	Good	Sirika
59	Neeraj	21/3103	H.A. (Hons)	Good	Neeraj
60	Deepanshu	21/33019	B.A. Proj.	Very Good	Deepanshu
61.	Sachin	21/33011	B.A. Proj.	Good	Sachin
62	Srinivas	21/33014	B.B.E	Good	Srinivas

Rishu



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**REPORT:**

The National Service Scheme unit of Shivaji College under the aegis of IQAC organised the "Fit India Swachhata Freedom Run 4.0" on 11<sup>th</sup> & 16<sup>th</sup> October 2023.

The event began at 8 AM from the college premises under the guidance of teachers. Approx. Sixty NSS Shivaji volunteers with full enthusiasm and energy covered a total of 3 km approx. in the run to spread awareness about and promote fitness, wellness and community engagement among people.

NSS Shivaji remains committed to continue its journey toward a healthier and sustainable environment and society.

*Revised*





शिवाजी कॉलेज  
(दिल्ली विश्वविद्यालय)  
*Shivaji College*  
(University of Delhi)

NAAC ACCREDITED "A" GRADE COLLEGE



**Ability Enhancement Course (AEC-I) compulsory course for all undergraduate courses**

**Ability Enhancement course (AEC), Skill Enhancement Course, (SEC) & Value Addition Course (VAC)**

These three courses shall be a pool of courses offered by all the Departments in groups of odd and even semesters from which students can choose. A student who desires to make Academic Project/Entrepreneurship as Minor has to pick the appropriate combination of courses of GE, SEC, VAC, & Internship/Apprenticeship/Project/Community (IAPC) which shall be offered in the form of various modules as specified in the scheme of studies.

AEC courses are the courses based upon the content that leads to knowledge enhancement through various areas of study. They are Language and Literature and Environmental Science and Sustainable Development which will be mandatory for all disciplines.



## Syllabus of Environmental Studies (EVS)

### Ability Enhancement Course (AEC-I) for all undergraduate courses

#### ANNEXURE-I

Ability Enhancement Compulsory Course

**Ability Enhancement Course on Environmental Science: Theory into Practice (I & II) at UG level (AEC I) Course Learning Outcomes**

**6.0** The course will empower the undergraduate students by helping them to.

- Gain in-depth knowledge on natural processes and resources that sustain life and govern economy.
- Understand the consequences of human actions on the web of life, global economy, and quality of human life.
- Develop critical thinking for shaping strategies (scientific, social, economic, administrative, and legal) for environmental protection, conservation of biodiversity, environmental equity, and sustainable development.
- Acquire values and attitudes towards understanding complex environmental-economic-social challenges, and active participation in solving current environmental problems and preventing the future ones.
- Adopt sustainability as a practice in life, society, and industry.

**6.1**

**Year - 1**

**Ability Enhancement Course on Environmental Science: Theory into Practice (I) — at UG level (AEC-I)**

**Unit 1**

Introduction to Environmental Studies (2 lectures and 3 practical/ outreach activities)

- Multidisciplinary nature of environmental studies; components of environment: atmosphere, hydrosphere, lithosphere, and biosphere
- Scope and importance; Concept of sustainability and sustainable development; Brief history of environmentalism

**Suggested Readings**

- Raven, P.H, Hassenzahl, D.M., Hager, M.C, Gift, N.Y., and Berg, L.R. (2015). *Environment*, 8th Edition. Wiley Publishing, USA. Chapter 1 (Pages: 1-17); Chapter 2 (Pages: 22-23); Chapter 3 (Pages: 40, 41); Chapter 4 (Pages: 64, 66).
- Singh, J.S., Singh, S.P., and Gupta, S.R. (2017). *Ecology, Environmental Science and Conservation*. S. Chand Publishing, New Delhi. Chapter 1 (Page: 3-28).

**Practical/Exercises/Experiential activities/Outreach activities**

*(College may choose as per requirement)*

- Analysis of achievement of Sustainable Development Goals of any country.
- Gain insights of sustainability framework for an industrial activity using activity worksheets
- Use of environmental activity worksheets to understand interdependence and interactions between different environmental components.

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Syllabus of Environmental Studies (EVS)

Ability Enhancement Course (AEC-I) for all undergraduate courses

**Unit 2**

**Ecosystems (6 lectures and 6 practical/ outreach activities)**

- **Definition and concept of Ecosystem**
- **Structure of ecosystem (biotic and abiotic components); Functions of Ecosystem: Physical (energy flow), Biological (food chains, food web, ecological succession), and Biogeochemical (nutrient cycling) processes. Concepts of productivity, ecological pyramids and homeostasis.**
- **Types of Ecosystems: Tundra, Forest, Grassland, Desert, Aquatic (ponds, streams, lakes, rivers, oceans, estuaries); importance and threats with relevant examples from India**
- **Ecosystem services (Provisioning, Regulating, Cultural, and Supporting); Ecosystem preservation and conservation strategies; Basics of Ecosystem restoration.**

**Suggested Readings**

1. Odum, E.P., Odum, H.T., and Andrews, J. (1971). *Fundamentals of Ecology*. Saunders, Philadelphia, USA. Chapter 1 (Pages: 1-16); Chapter 2 (Pages: 18-76); Chapter 10 (Pages: 414-458).
2. Raven, P.H, Hassenzahl, D.M., Hager, M.C, Gift, N.Y., and Berg, L.R. (2015). *Environment*, 9th Edition. Wiley Publishing, USA. Chapter 3 (Pages: 38-52); Chapter 4 (Pages: 53-62); Chapter 5 (Pages: 100-103); Chapter 6 (Pages: 106-128).
3. Singh, J.S., Singh, S.P., and Gupta, S.R. (2017). *Ecology, Environmental Science and Conservation*. S. Chand Publishing, New Delhi. Chapter 13 (Pages: 307-323); Chapter 18 (Pages: 420-442); Chapter 28 (Pages: 747-769).

**Practical Exercises/Experiential activities/Outreach activities**

*(College may choose as per requirement)*

1. Schematic collection of data for depicting ecological pyramids in the College campus
2. Differentiation of natural and managed ecosystems using Google Earth/Google Map
3. Field visit to terrestrial and aquatic ecosystems (forests, grasslands, wetlands, biodiversity parks, etc.)
4. Develop a working model of any ecosystem
5. Use of worksheets to identify structure and function of different ecosystems.

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NAAC ACCREDITED "A" GRADE COLLEGE

Syllabus of Environmental Studies (EVS)

Ability Enhancement Course (AEC-I) for all undergraduate courses

**Unit 3**

**Natural Resources (8 lectures and 6 practical/ outreach activities)**

- **Land resources:** Minerals, soil, agricultural crops, natural forest products, medicinal plants, and forest-based industries and livelihoods; Land cover, land use change, land degradation, soil erosion, and desertification; Causes of deforestation; Impacts of mining and dam building on environment, forests, biodiversity, and tribal communities
- **Water resources:** Natural and man-made sources; Uses of water; Over exploitation of surface and ground water resources; Floods, droughts, and international & inter- state conflicts over water
- **Energy resources:** Renewable and non-renewable energy sources; Use of alternate energy sources; Growing energy needs; Energy contents of coal, petroleum, natural gas and bio gas; Agro-residues as a biomass energy source
- **Case studies:** Contemporary Indian issues related to mining, dams, forests, energy, etc (e.g., National Solar Mission, Cauvery river water conflict, Sardar Sarovar dam, Chipko movement, Appiko movement, Tarun Bharat Sangh, etc)

**Suggested Readings**

1. Gadgil, M. and Guha, R. (1993). *This Fissured Land: An Ecological History of India*. University of California Press, Berkeley, USA. (pp. 1-245).
2. McCully, P. (1996). *Rivers no more. the environmental effects of dams, I n: Silenced Rivers: The Ecology and Politics of Large Dams*, Zed Books, New York, USA. Page. 29-64.
3. Raven, P.H, Hassenzahl, D.M., Hager, M.C, Gift, N.Y. and Berg, L.R. (2015). *Environment*, 9th Edition. Wiley Publishing, USA. Chapters 10, 11, 12, 13 (Pages: 180-263); Chapter 14 (Pages: 272-275); Chapter 15 (Pages: 286-289).
4. Singh, J.S., Singh, S.P. and Gupta, S.R. (2017). *Ecology, Environmental Science and Conservation*. S. Chand Publishing, New Delhi. Chapter 25 (Pages: 623-663).

**Practical/Exercises/Experiential activities/Outreach activities (College may choose as per requirement)**

1. Visit to a paper recycling unit/rainwater harvesting plant/solar plant/biogas plant in the College campus
2. Develop and understand working model of renewable/non-renewable sources of energy
3. Mapping of natural resources of a given study area using Google Earth
4. Time-series analysis of natural resource consumption of a given country using publicly available data
5. Comparison of energy demand and consumption of a particular state over the years using graphical tools.

(Continued)





## Syllabus of Environmental Studies (EVS)

### Ability Enhancement Course (AEC-I) for all undergraduate courses

#### Unit 4

#### Environmental Pollution (8 lectures and 6 practical/ outreach activities)

- Environmental pollution (Air, water, soil, thermal, and noise): causes, effects, and controls; Primary and secondary air pollutants; Air and water quality standards
- Nuclear hazards and human health risks
- Solid waste management: Control measures for various types of urban, industrial waste, Hazardous waste, E-waste, etc; Waste segregation and disposal
- Pollution case studies: Ganga Action plan (GAP), Delhi air pollution and public health issues, Plastic waste management rules, Bhopal gas tragedy, etc

#### Suggested Readings

1. Brusseau, M.L., Pepper, I.L. and Gerba, C.P. (2019). *Environmental and Pollution Science*, 3rd Edition. Academic Press, USA. Chapter 16 (Pages: 243-255); Chapter 18 (Pages: 280-305); Chapter 21 (Pages: 352-358); Chapter 22 (Pages: 365-374); Chapter 23 (Pages: 378-388); Chapter 25 (Pages: 416-426).
2. Carson, R. (2002). *Silent Spring*. Houghton Mifflin Harcourt, USA. Pp. 1-264.
3. Raven, P.H., Hassenzahl, D.M., Hager, M.C., Gift, N.Y. and Berg, L.R. (2015). *Environment*, 9th Edition. Wiley Publishing, USA. Chapter 19 (Pages: 359-381); Chapter 21 (Pages: 401-421); Chapter 23 (Pages: 440-453).
4. Singh, J.S., Singh, S.P. and Gupta, S.R. (2017). *Ecology, Environmental Science and Conservation*. S. Chand Publishing, New Delhi. Chapters 19, 20, 12 (Pages: 445-535).

#### Practical/Exercises/Experiential activities/Outreach activities

(College may choose as per requirement)

1. Determine water quality of a given location using rapid pollution monitoring kits
2. Assess air quality index (AQI) of any location using real-time air quality parameters
3. Determine magnitude of solid waste generated in a home/college on a monthly basis
4. Develop and maintain compost/vermicompost using biodegradable waste in the College
5. Identify suitability of given water samples for various purposes using given kits
6. Prepare water audit report of the college/house/locality/colony.
7. Map solid and liquid discharge of the college/colony and develop a management plan (show it using schematic diagram, and photographs).
8. Repurpose waste for economic and environmental benefits in your college/near by area/colony (submit a small video).
9. Analyze river-society-economy nexus based on primary or secondary data (use quantitative data, and show it using photographs on a poster).

(Continued)



**Syllabus of Environmental Studies (EVS)**

**Ability Enhancement Course (AEC-I) for all undergraduate courses**

**Year — 2**

**Ability Enhancement Course on  
Environmental Science: Theory into Practice (II) — at UG level (AEC-II)**

**Unit S**

**Global Environmental Issues and Policies (7 lectures 8 practical/ outreach activities)**

- **Causes of Climate change, Global warming, Ozone layer depletion, and Acid rain; Impacts on human communities, biodiversity, global economy, and agriculture**
- **International agreements and programmes: Earth Summit, UNFCCC, Montreal and Kyoto protocols, Convention on Biological Diversity (CBD), Ramsar convention, The Chemical Weapons Convention (CWC), UNEP, CITES, etc.**
- **Sustainable Development Goals: India's National Action Plan on Climate Change and its major missions**
- **Environment legislation in India: Wildlife Protection Act, 1972; Water (Prevention and Control of Pollution) Act, 1974; Forest (Conservation) Act 1980; Air (Prevention & Control of Pollution) Act, 1981; Environment Protection Act, 1986; Scheduled Tribes and other Traditional Forest Dwellers (Recognition of Forest Rights) Act, 2006**

**Suggested Readings**

1. Divan, S. and Rosencranz, A. (2002). *Environmental Law and Policy in India: Cases, Material & Statutes*, 2nd Edition. Oxford University Press, India. Chapter 2 (Pages: 23-39); Chapter 3 (Pages: 41-86).
2. Raven, P.H, Hassenzahl, D.M., Hager, M.C, Gift, N.Y. and Berg, L.R. (2015). *Environment*, 9th Edition. Wiley Publishing, USA. Chapter 19 (Pages: 370-376); Chapter 20 (Pages: 385-399).
3. Singh, J.S., Singh, S.P. and Gupta, S.R. (2017). *Ecology, Environmental Science and Conservation*. S. Chand Publishing, New Delhi. Chapter 23 (Pages: 555-598); Chapter 30 (Pages: 801-807).

**Practical/Exercises/Experiential activities/Outreach activities**

*(College may choose as per requirement)*

1. Depict temperature/precipitation trend of a given study area using online data
2. Formulate questionnaire/online surveys for assessment of the impact of climate change on people
3. Assess Nationally Determined Contributions (NDCs) of developed and developing countries
4. Development and simulation of Model UNFCCC for inoculating negotiation skills at climate change summits
5. Development and simulation of Moot Court for Mock Trials in Negotiation Green Tribunal
6. Identify carbon footprint of your college/home/locality (refer [wwf@envis.nic.in](mailto:wwf@envis.nic.in)).

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Syllabus of Environmental Studies (EVS)

Ability Enhancement Course (AEC-I) for all undergraduate courses

**Unit 6**

**Biodiversity and Conservation (8 lectures and 8 practical/ outreach activities)**

- **Definition of Biodiversity; Levels of biological diversity: genetic, species and ecosystem diversity**
- **India as a mega-biodiversity nation; Biogeographic zones of India; Biodiversity hotspots; Endemic and endangered species of India; IUCN Red list criteria and categories**
- **Value of biodiversity: Ecological, economic, social, ethical, aesthetic, and informational values of biodiversity with examples; sacred groves and their importance with examples**
- **Threats to biodiversity: Habitat loss, degradation, and fragmentation; Poaching of wildlife; Man-wildlife conflicts; Biological invasion with emphasis on Indian biodiversity; Current mass extinction crisis**
- **Biodiversity conservation strategies: in-situ and ex-situ methods of conservation; National Parks, Wildlife Sanctuaries, and Biosphere reserves; Keystone, Flagship, Umbrella, and Indicator species; Species reintroduction and translocation**
- **Case studies: Contemporary Indian wildlife and biodiversity issues, movements, and projects (e.g., Project Tiger, Project Elephant, Vulture breeding program, Project Great Indian Bustard, Crocodile conservation project, Silent Valley movement, Save Western Ghats movement, etc)**

**Suggested Readings**

1. Primack, R.B. (2014). *Essentials of Conservation Biology*, Oxford University Press, USA. Page. 1-536.
2. Raven, P.H, Hassenzahl, D.M., Hager, M.C, Gift, N.Y. and Berg, L.R. (2015). *Environment*, 9th Edition. Wiley Publishing, USA. Chapter S (Pages: 97-99); Chapter 16 (Pages: 299-318).
3. Singh, J.S., Singh, S.P. and Gupta, S.R. (2017). *Ecology, Environmental Science and Conservation*. S. Chand Publishing, New Delhi. Chapters 24 (Pages: 599-690); Chapter 26 (Pages: 664-714).



## Syllabus of Environmental Studies (EVS)

### Ability Enhancement Course (AEC-I) for all undergraduate courses

#### Practical/Exercises/Experiential activities/Outreach activities (College may choose as per requirement)

1. Acquaintance with open-source databases of biodiversity
2. Determine species location in a given study area
3. Depict distribution of biodiversity across latitude and altitude
4. Show species distribution across space and time
5. Quantify species loss across different time periods
6. Sampling of plant and animal biodiversity of the College campus
7. Identification of the floral diversity of Delhi and other states.

Documentation of the plants by clicking pictures, finding out the scientific names/ local names through literature or mobile applications, identification of their conservation status (IUCN red book list), medicinal properties, water consumption status, and socio-economic-environmental importance. A short report to be submitted)

8. Exercise to understand the socio-economic-environmental impact of wildlife conservation.

(Students can choose any global animal species and identify the relevance of the species for the ecosystem/ society/ culture/ local economy, historic or present range of the species, emerging threats due to human activities, identification of documented events of natural disasters/ conflicts/ poaching of the species in the present range, conservation status (IUCN red book list), identification of protected areas/ programs of the government/ international organisation, and their opinion to further improve the conservations of the species. A short report to be submitted.

#### Unit 7

##### Human Communities and the Environment (6 lectures and 7 practical/ outreach activities)

- Human population growth: Impacts on environment, human health, and welfare; Carbon foot-print
- Resettlement and rehabilitation of developmental project affected persons and communities; relevant case studies
- Environmental movements: Chipko movement, Appiko movement, Silent valley movement, Bishnois of Rajasthan, Narmada Bachao Andolan, etc.
- Environmental justice: National Green Tribunal and its importance
- Environmental philosophy: Environmental ethics; Role of various religions and cultural practices in environmental conservation
- Environmental communication and public awareness: case studies (e.g., CNG vehicles in Delhi, Swachh Bharat Abhiyan, National Environment Awareness Campaign (NEAC), National Green Corps (NGC) "Eco-club" programme, etc)

#### Suggested Readings

1. Divan, S. and Rosencranz, A. (2002). Environmental Law and Policy in India: Cases, Material & Statutes, 2nd Edition. Oxford University Press, India. Chapter 10 (Pages: 416-473).
2. Raven, P.H, Hassenzahl, D.M., Hager, M.C, Gift, N.Y. and Berg, L.R. (2015). Environment, 9th Edition. Wiley Publishing, USA. Chapter 2 (Pages: 33-36);





## Syllabus of Environmental Studies (EVS)

### Ability Enhancement Course (AEC-I) for all undergraduate courses

#### Practical/Exercises/Experiential activities/Outreach activities

(College may choose as per requirement)

1. Assessment of carbon foot-print of different countries using online databases and mathematical tools
2. Visit to marginalized localities and students for environmental education and environmental awareness
3. Formulation of questionnaire/online surveys for assessment of the impact of environmental education
4. Visit to any developmental project affected locality for assessing the impacts of economic development on human lives
5. Correlation analysis of human population growth and impacts on the environment and human health

#### 6.2 Essential Readings

1. Brusseau, M.L., Pepper, I.L., and Gerba, C.P. (2019). *Environmental and Pollution Science*, 3rd Edition. Academic Press, USA. (pp. 1-520).
2. Divan, S. and Rosencranz, A. (2002). *Environmental Law and Policy in India: Cases, Material & Statutes*, 2nd Edition. Oxford University Press, India. (pp. 1-837).
3. Gadgil, M., and Guha, R. (1993). *This Fissured Land: An Ecological History of India*. University of California Press, Berkeley, USA. (pp. 1-245).
4. Raven, P.H., Hassenzahl, D.M., Hager, M.C, Gift, N.Y., and Berg, L.R. (2015). *Environment*, 8th Edition. Wiley Publishing, USA. (pp. 1-472).
5. Singh, J.S., Singh, S.P., and Gupta, S.R. (2017). *Ecology, Environmental Science and Conservation*. S. Chand Publishing, New Delhi. (pp.1-842).

#### 6.3 Weekly Lesson Plan

##### (Year 1) Weeks 1 -2

Multidisciplinary nature of environmental studies; components of environment: atmosphere, hydrosphere, lithosphere, and biosphere

Scope and importance; Concept of sustainability and sustainable development; Brief history of environmentalism

##### Weeks 3—7

Definition and concept of Ecosystem: Structure of ecosystem (biotic and abiotic components);

(Continued)



## Syllabus of Environmental Studies (EVS)

### Ability Enhancement Course (AEC-I) for all undergraduate courses

**Functions of Ecosystem: Physical (energy flow), Biological (food chains, food web, ecological succession), and Biogeochemical (nutrient cycling) processes. Concepts of productivity, ecological pyramids and homeostasis**

**Types of Ecosystems: Tundra, Forest, Grassland, Desert, Aquatic (ponds, streams, lakes, rivers, oceans, estuaries); importance and threats with relevant examples from India**

**Ecosystem services (Provisioning, Regulating, Cultural, and Supporting); Ecosystem preservation and conservation strategies; Basics of Ecosystem restoration**

#### Weeks 8–11

**Land cover, land use change, land degradation, soil erosion, and desertification; Causes of deforestation; Impacts of mining and dam building on environment, forests, biodiversity, and tribal communities Natural and man-made sources of water; Uses of water; Over exploitation of surface and ground water resources; Floods, droughts, and international & inter-state conflicts over water**

**Renewable and non-renewable energy sources; Use of alternate energy sources; Growing energy needs; Energy contents of coal, petroleum, natural gas and bio gas; Agro-residues as a biomass energy source**  
**Case studies: Contemporary Indian issues related to mining, dams, forests, energy, etc. (e.g., National Solar Mission, Cauvery river water conflict, Sardar Sarovar dam, Chipko movement, Appiko movement, Tarun Bharat Sangh, etc.).**

#### Weeks 12-15

**Environmental pollution (Air, water, soil, thermal, and noise): causes, effects, and controls; Primary and secondary air pollutants; Air and water quality standards**  
**Related case studies**

**Nuclear hazards and human health risks; Control measures for various types of urban, industrial waste, Hazardous waste, E-waste, etc.; Waste segregation and disposal**  
**Related case studies**

#### 6.4 Weekly Lesson Plan

##### (Year 2) Weeks 1—4

**Definition of biodiversity; Levels of biological diversity; India as a mega-biodiversity nation;**  
**Biogeographic zones of India; Biodiversity hotspots; Endemic and endangered species of India; IUCN Red list criteria and categories**  
**Value of biodiversity: Ecological, economic, social, ethical, aesthetic, and**

(Continued)





**Syllabus of Environmental Studies (EVS)**

**Ability Enhancement Course (AEC-I) for all undergraduate course**

**informational values of biodiversity with examples; sacred groves and their importance with examples**

**Threats to biodiversity: Habitat loss, degradation, and fragmentation; Poaching of wildlife; Man-wildlife conflicts; Biological invasion with emphasis on Indian biodiversity; Current mass extinction crisis; Biodiversity conservation strategies: in-situ and ex-situ methods of conservation; National Parks, Wildlife Sanctuaries, and Biosphere reserves; Keystone, Flagship, Umbrella, and Indicator species; Species reintroduction and translocation**

**Case studies: Contemporary Indian wildlife and biodiversity issues, movements, and projects (e.g., Project Tiger, Project Elephant, Vulture breeding program, Project Great Indian Bustard, Crocodile conservation project, Silent Valley movement, Save Western Ghats movement, etc)**

**Weeks 5-9**

**Causes of Climate change, Global warming, Ozone layer depletion, and Acid rain; Impacts on human communities, biodiversity, global economy, and agriculture International agreements and programmes: Earth Summit, UNFCCC, Montreal and Kyoto protocols,**

(Continued)



## Syllabus of Environmental Studies (EVS)

### Ability Enhancement Course (AEC-I) for all undergraduate courses

Convention on Biological Diversity(CBD), Ramsar convention, The Chemical Weapons Convention (CWC), UNEP, CITES, etc

Sustainable Development Goals: India's National Action Plan on Climate Change and its major missions Wildlife Protection Act, 1972; Water (Prevention and Control of Pollution) Act, 1974; Forest (Conservation) Act 1980; Air (Prevention & Control of Pollution) Act, 1981; Environment Protection Act, 1986; Scheduled Tribes and other Traditional Forest Dwellers (Recognition of Forest Rights) Act, 2006

Weeks 10—15

Human population growth: Impacts on environment, human health, and welfare; Carbon foot-print; Resettlement and rehabilitation of developmental project affected persons and communities; relevant case studies; Environmental movements: Chipko movement, Appiko movement, Silent valley movement, Bishnois of Rajasthan, Narmada Bachao Andolan, etc; Environmental justice: National Green Tribunal and its importance

Environmental philosophy: Environmental ethics; Role of various religions and cultural practices in environmental conservation

Environmental communication and public awareness: case studies (e.g., CNG vehicles in Delhi, Swachh Bharat Abhiyan, National Environment Awareness Campaign (NEAC), National Green Corps(NGC) "Eco-club" programme, etc)

#### 7.0 Teaching Learning process

The teaching—learning methodologies are designed to provide the undergraduate students a comprehensive understanding of the subject in a simplistic manner as well as evoke critical reasoning and analytical thinking among them. The various approaches to teaching—learning process include classroom lectures, video presentations, and ICT enabled teaching tools. For enhancing practical understanding, field visits are encouraged to relevant places in Delhi like Biodiversity parks, Protected areas, Wetlands, Sewage treatment plants, etc.

#### 7.1 Assessment methods

1. Written examinations (Semester exams) [(Year 1: 01 credit (1 hour); Year 2: 01 credit(1 hour)]

2. Project work and reports related to field visits, outreach activities, case study, project formulation, assignments, presentations and practical learning (Internal practical assessment) [(Year 1: 01 credit (2 hour); Year 2: 01 credit (2 hour)]

Year 1 (Sem-I/Sem-II): 01 Credit Theory+ 01 Credit practical exercises, etc.  
= Total 02 Credits (03 hours)

Year 2 (Sem-I/Sem-II): 01 Credit Theory+ 01 Credit practical exercises, etc.  
= Total 02 Credits (03 hours)





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B.Sc.(H) Zoology Semester V-ZH DSE Course I-Animal Behaviour and Chronobiology

**Unit 3: Social and Sexual Behaviour**

15 hrs

Social Behaviour: Concept of Society; Communication and the senses (Chemical, Tactile, Auditory, Visual); Altruism, Inclusive fitness, Hamilton's rule; Insects' society (Example: Honey bee); Foraging in honey bee and advantages of the waggle dance. Sexual Behaviour: Asymmetry of sex, Sexual dimorphism, Mate choice, Intra-sexual selection (male rivalry), Inter-sexual selection (female choice), Courtship behaviour; Parental care, sexual conflict in parental care.

**Unit 4: Introduction to Chronobiology**

6 hrs

Historical developments in chronobiology; Biological oscillation: the concept of Average, amplitude, phase and period. Adaptive significance of biological clocks

**Unit 5: Biological Rhythm**

13 hrs

Characteristics of biological rhythms; Short- and Long-term rhythms; Circadian rhythms; Tidal rhythms and Lunar rhythms; Concept of synchronization and masking; Photoc and non-photoc zeitgebers; Circannual rhythms; Photoperiod and regulation of seasonal reproduction of vertebrates; Role of melatonin.

**Unit 6: Biological Clocks**

8 hrs

Relevance of biological clocks; Chronopharmacology, Chronomedicine, Chronotherapy.

**Practical [Credits: 2]**

1. To study nests and nesting behaviour of the birds and social insects.
2. To study the behavioural responses of wood lice to dry and humid conditions.
3. To study geotaxis behaviour in earthworm/ phototaxis behaviour in insect larvae.
4. Study of courtship behaviour in birds and insects from short videos/films.
5. Visit to Forest/Wild life Sanctuary/Biodiversity Park/Zoological Park to study and record the behavioural activities of animals and prepare a short report.
6. Study and actogram construction of locomotor activity of suitable animal models.
7. To study circadian functions in humans (daily eating, sleep and temperature patterns).

**Teaching and Learning Process:**

Teaching learning methods for the Animal behaviour and chronobiology paper should include conventional black board teaching coupled with power point presentations and smart board. The animal behaviour in wild life can be shown to the student with the help of videos and short films. The classroom teaching should be inclusive and have opportunities for the students to participate in the class discussion. The students should be encouraged to observe various live animal behaviours in their immediate surrounding environment and interpret them. There should be ample scope for field visits and visit to the research laboratories. Seminar should be arranged at the departmental level for the student, where student can have paper presentation on various themes of animal behaviour and chronobiology. Quizzes and debates can be arranged to make the teaching learning more innovative. Students should be advised to use e resources along with standard text books and reference books. They should take short project work and case study on the animal behaviour. They should relate various concepts in chronobiology taught in the classroom with their daily life. The students should be regularly assessed.

Ashwini  
Nigam

Rakesh



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### Life Sciences

class hours. The students are asked to submit their record notebooks to the teacher/s for checking.

Week 2: Unit I

Week 3: Unit II

Week 4: Unit II

Week 5: Unit III

Week 6: Unit III

Week 7: Field visit

Week 8: Unit IV

Week 9: Unit IV

Week 10: Mid semester Exam

Week 11: Mid Semester Break

Week 12: Unit IV

Week 13: Unit V

Week 14: Unit V

Week 15: Unit V

### Assessment Methods

**Theory:** The students are continuously evaluated based on a class test and the presentation given by each student. The answer scripts of the test are returned to the students and the test paper is discussed at length. The question paper is suitably modified for such students.

Each student in a class is given a different topic to prepare a PowerPoint presentation. All the remaining students listen to the presentation of each student, and peer students are also encouraged to ask questions. Presentations by students improves their reasoning and communication skills. The presentations of students are evaluated by the teacher based on the content, effectiveness of the presentation, whether any new information has been added, and lastly on the answers given by students to the questions posed by the teacher.

The Internal Assessment has a break-up as 10 marks for the test, 10 marks for the presentation/ assignment and 5 marks for the attendance, and comprises 25 % of the total marks.

**Practicals:** For continuous evaluation two tests are conducted; one on the table work experiments for 10 marks, and the other on setups for 10 marks. The total marks obtained is scaled down to 10. Ten marks are allotted for record notebooks, and 5 marks for attendance. The Internal Assessment for practicals comprises 50 % of the total marks.

### Assessment Task

Unit No	Course learning Outcome	Teaching and Learning Activity	Assessment Task
Unit I:	General account about the microbes used as biofertilizer – Rhizobium – isolation, identification, mass multiplication, carrier based inoculants, Actinorrhizal symbiosis.	Class room lectures and Practical demonstration, experiments	Hands on exercises, PPT, assignments, tests
Unit II:	<i>Azospirillum</i> : isolation and mass multiplication – carrier based inoculant, associative effect of different microorganisms. <i>Azotobacter</i> : classification, characteristics – crop response to <i>Azotobacter</i> inoculum, maintenance and mass multiplication.	Class room lectures and Practical demonstration, experiments	Hands on exercises, PPT, assignments, tests





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Botany syllabus-III semester

## Teaching Learning Process

The Class room teaching is integrated with practical classes, and field visit to impart a sound understanding of the course. The theory topics are covered in lectures with the help of blackboard teaching and PowerPoint presentations. When the entire syllabus is completed, a few lectures are devoted to discuss the previous years' question papers.

Every practical session begins with detailed instructions, followed by students conducting the experiment/s in the laboratory/college campus. When all the students have collected the data, the observations are discussed. Any deviation from the expected trend in results is explained. The students are encouraged to graphically represent the data and record the experiment during class hours. The students are asked to submit their record notebooks to the teacher/s for checking.

College teachers can also form a group and prepare e-contents for theory as well as for practicals. Field visit is also be organised to familiarise the students with local plant species, and to understand community pattern and processes.

Cont.



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Monochlamydeae- Any 2 families

Monocotyledons- Any 2 families

2. Field visit (local)- Subject to grant funds from the University

3. Mounting of a properly dried and pressed specimen of any wild plant on herbarium sheet (to be submitted with the record book).

#### References

1. Singh, G. (2012). *Plant Systematics: Theory and Practice*, 3rd edition. Oxford and IBH Pvt. Ltd. New Delhi. Chapter 1 for unit 1, chapter 2 for unit 5, chapter 3 for unit 4, chapter 5 for unit 2, chapter 7 for unit 3, chapter 8 & 9 for unit 7 and 8, chapter 10 for unit 6.
2. Simpson, M.G. (2010). *Plant Systematics*. Elsevier Academic Press, San Diego, CA, U.S.A. chapter 1 for unit 1, chapter 2, 6 & 7 for unit 8, chapter 14 for unit 3, chapter 15-18 for unit 2.
3. Stuessy, Tod F. (2009) *Plant Taxonomy: The systematic evaluation of comparative data* - 2nd edition. Columbia University Press Chapter 5, 6 for unit 1, chapter 19-21 for unit 3, chapter 10-11 for unit 4, chapter 4 & 7 for unit 7, chapter 8 for unit 8.
4. Gupta R. 2011 (Ed.) *Plant Taxonomy: past, present, and future*. New Delhi: The Energy and resources Institute (TERI). chapter 2, for unit 5, chapter 4 for unit 5, chapter 5 for unit 3, chapter 8 for unit 2, chapter 9 for unit 7 and 8, chapter 11-15 for unit 3.

#### Additional Resources

5. Stace, C.A (1989) *Plant Taxonomy and Biosystematics* 2<sup>nd</sup> edition. Cambridge University Press, NY USA. Chapter 1 and 2 for unit 1, chapter 3 for unit 7, chapter 4 & 5 for unit 3, chapter 9 & 10 for unit 2.
6. Raven, F.H., Evert, R. F., Eichhorn, S.E. (1992). *Biology of Plants*. W.H. Freeman and Company. New York, NY. chapter 20 for unit 8, chapter 12 for unit 1, 2 7 & 8.
7. Walter S. Judd, et.al. 2015 *Plant Systematics : A Phylogenetic Approach* 4th Edition Sinauer Associates , Oxford University Press.USA .chapter 1 for unit 1, chapter 4 for unit 3, chapter 2 & 8 for unit 8, appendix 1 for unit 5, chapter 3 for unit 6.
8. <http://www.mobot.org/MOBOT/research/APweb/>. Unit 6 ( for APG IV classification)

#### Teaching Learning Process

Field visits to the forested areas and on the spot Plant identification feature would be very helpful. Visual media should be made available. It is suggested that Botany Department, University of Delhi may be entrusted with preparation of good visual aids that would help students get a feel of the subject and they find the subject interesting. Even the college teachers can form a group and work out these possibilities of visual aids that would enhance teaching learning process.

Week 1: Unit I

Week 2: Unit II

Week 3: Unit II

Week 4: Unit Local Field visit

Week 5: Unit III





## Geography 5th semester syllabus

### 11. Regional Planning and Development

#### Course Objectives:

1. To understand the concept of Region and Regional Planning.
2. To familiarize the students with Theories and Models for Regional Planning.
3. To develop understanding about concept of Development, Sustainable Development and different programmes and policies.

#### Learning Outcome:

After studying, students will be able to:

1. Conceptualize the Regional Planning and its theories.
2. Get the overview of Sustainable Regional Development.
3. Have sound knowledge to Sustainable Development Policies and Programmes.

#### Course Content:

1. Definition of Region, Evolution and Types of Regional planning: Formal, Functional, and Planning Regions and Regional Planning;
2. Choice of a Region for Planning: Regionalization of India for Planning (Agro Ecological Zones)
3. Theories and Models for Regional Planning: Growth Pole Model of Perroux; Myrdal, Hirschman, Rostow and Friedmann;
4. Sustainable Development: Concept of Development and Underdevelopment; Efficiency-Equity Debate: Definition, Components and Sustainability for



## Geography 6th Semester syllabus

### 13. Evolution of Geographical Thought

#### Course Objectives:

1. Understanding historical evolution of geographic thought
2. Detailed analysis of different paradigms in geography
3. Evaluating the contemporary trends in geographical studies

#### Learning Outcomes:

1. In depth understanding about the evolution of geographical thought
2. Detailed knowledge about the paradigms and debates in the geographical studies.
3. Understanding of recent traditions in geography





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## 14. Disaster Management based Project Work (Practical)

### Course Objectives:

1. Understanding the basic concepts of disaster management
2. Detailed analysis about the different types of disasters in India
3. Evaluating the various dimensions of disaster management through field works

### Learning Outcomes:

1. In depth understanding about the various disasters in the country
2. It will provide thorough understanding about the human responses to the disasters
3. It will give an in-depth knowledge about the disasters through fieldworks

### Course Content:

1. Introduction to Disaster Management: Basic concepts; Disaster Management Cycle: components and stages; Community Based Disaster Management
2. Flood and Drought
3. Cyclone and Hailstorms
4. Earthquake and Volcanoes
5. Landslides
6. Human Induced Disasters: Fire Hazards, Chemical, Industrial accidents

(Practical Record: Project work to be based on any two of the above topics of their Choice. First should be field-based case study and second should be local / college-based. )