Supporting Document: 1.3.2

Experiential learning through project work/field work/internship during last five years



Life Science visit to IVF Centre, July 2022

Botanical Field Trip and Institute visit to Dharamshala and McLeodGanj, Himachal Pradesh, September 2019



Botanical Field Trip and Institute visit to Srinagar, Uttarakhand, October 2018







Department of Botany, Industrial Visit to Mother Dairy Plant, Delhi on March, 2023

Botany Department Organised Field Trip to NBPGR on 7 June, 2023



Educational field visit to Indian Agricultural Research Institute, Pusa, New Delhi







Excursion trip to Purana Qila on 1ST March 2023



EDUCATIONAL TRIP TO "KRISHI UNNATI MELA" AND "DIVISION OF MICROBIOLOGY", INDIAN AGRICULTURAL RESEARCH INSTITUTE, PUSA, NEW DELHI



INDUSTRIAL VISIT TO YAKULT DANONE INDIA PVT. LTD. AND NATIONAL INSTITUTE OF FOOD TECHNOLOGY ENTREPRENEURSHIP AND MANAGEMENT (NIFTEM), SONEPAT, HARYANA



LIST OF THE SEMINARS ORGANISED

1. A talk on "World of butterflies" and butterfly campus count was organised by Dr Rajni Arora on 20 September, 2019 at 9.30 A.M in the new building of the college with ABWLS in association with Bombay Natural History, as a part of butterfly month celebration. Dr Ishtiyaq Ahmad, Education officer, CECBNHS was the speaker for the programme. The students of BSc Zoology Hon and BSc Life science participated enthusiastically in the talk and in butterfly campus count.







The Life Science department of Swamin Shradhhanandd College organized a one day workshop to *Aveya IVF* Rajouri Garden for its semester 2 students on the 2nd of June 2023. The workshop aimed to provide students with practical exposure IVF Lab.





			Commellin No.
2			CLASSTIME PO NO.
3-	Nome Mobile	A/0°	osignature
7	1 10 10		Way
-	17 Yuxuaj 88088		200
-	27 Abhistick 89204		Amprocess A
1	3) Mupmush ky 6206647	A CONTRACTOR OF THE PARTY OF TH	TOTAL ON
5		2352 197777	Post 12
Name and Address of the Owner, where) Aditya 995852		The same
V	7 Aniket Tolkpathi 807660		Ansket
/A	7 Anwesha 83402		Anuscha Sakshi
1	- Roshru 962809		Reshani
1	Nazmin Khan 7836de		nomin lan
11			This how showing
12	Arpita Sonkan 8851895	1641	Ang: to
1.3		8843911	Johita
14	Rotif Rat		Robert Ray
18	The state of the s	321 801	- Horaklem
16.	Wittom 995	1117439	UHAM
17		163208	Jahne.
18	7 1 -	- I	Sarjara
19		1997427 730	1847421- Jelyla
20		50377853	Reside
21	Falak 9811	088272	faculy
22	Surita 636	7799365	Smite.
23	Yashasvil 639	0335814	Yashastos.
24	Mreya 89	20120307	Striege
25		130821	- Jayana"
26	Lana (8653) 995	8300794	Walturn
27		307966	faire Chame
000	3	24089903	dusal
			Vansskika U
29		15 871 299	
30	A	38704577	K.O
31	Khush600 8178	331557	

	Nome	mobile no	Signature,
32	Khushi yadav	865065 4157	free his
33	Khushi yadar Anjali Solini	9599402909	Ayali.
34.	Khushi Sharma	8447891636	Chushi
35,	Torrisha	9717568241	Bowshy
36.	Alok	9990488051	Alok
37.	Hariom	7289033278	fari
38.	Shubham Bohet	8383844982	Alus
39.	Ishika	7634015658	Druke
40.	Farchat	8528878907	Canhat.
41,	Divyor Tiwara	9315928514	activo de la company
प्र	Shub ham Kr.	9810693053	Al Masola at
43.	Nitika	9871348378	stike.
(Ath-	Abija Abhijat	19939918	A mediante i
49	Abhijour	9871721702	Appliat of a state of the
45		9718391959	Santa Mi March Mi
40	Megha	85068 90506	John John Maria
47	Tahlen	8595789280	Schleen
48	Bhoomi	9891502260	Broom
49	Horaid	8474047543	Noccee

Project Work of Final year students of Zoology Hons. (Sem VI) for the paper Parasitology was submitted.



Paper: Field Work and Research Methodology

Place: Manali, Himachal Pradesh

Date: 17 to 24 February 2019

Total Teachers: 3 Anand Malik sir, Omjee Ranjan Sir, Atithi Ma'am









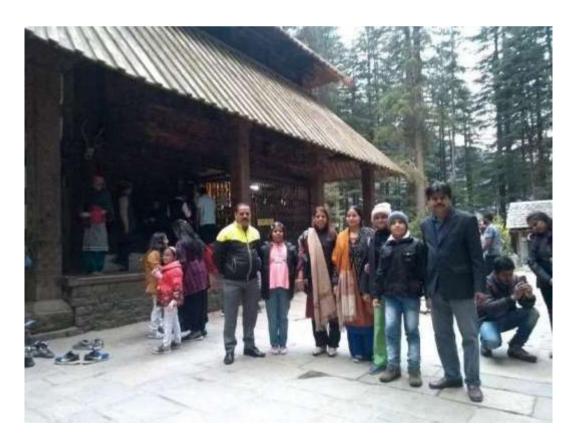
Dr. S. K. Sagar and Dr. Manas Kumar Dhal organized One day Lab visit of B. Sc. 6th Semester Applied Life Sciences Students on 8th September, 2018 to **Applied Entomology and Radiation Biology Lab.**, **Department of Zoology**, Delhi University, Delhi-110007.

Dr. Manas Kumar Dhal, Dr. Pushpa Singh and Mrs. Akanksha of Department of Zoology, Swami Shraddhanad College (DU), Alipur, Delhi-110 036 organizied an one day Lab. visit for the students of B.Sc. Life Sciences and Applied Life Sciences 5th Semester on 26th September, 2019 to **Entomology Division and NCIPM of IARI**, Pusa Campus, New Delhi-12

Dr. S. K. Sagar and Dr. Manas Kumar Dhal of Department of Zoology, Swami Shraddhanad College (DU), Alipur, Delhi-110 036 organized an one day Lab. visit for the students of B.Sc. Applied Life Sciences 6th Semester on 4th September, 2019 to **Entomology Division of IARI**, Pusa Campus, New Delhi-12

Dr. Mukesh Kumar and Dr. Manas Kumar Dhal of Department of Zoology, Swami Shraddhanad College (DU), Alipur, organized an one day educational museum visit for the students of B.Sc. Zoology (Hons.) 6th Semester to the **Geology Department, Delhi University,** Delhi-110 007 to study the **Fossils and Fossilization** as part of their evolutionary biology syllabus on 19th February, 2020.







B.Sc. Life Sc. Zoology Students Sem I made an Album on the Animal Diversity



1.3.2 Certificates of Experiential learning through internship during last Academic year 2022-2023





NAYEPANKH FOUNDATION

CERTIFICATE

OF PARTICIPATION

PROUDLY PRESENTED TO



For his/her active participation in the One Day, Marketing Collaboration Campaign and for putting their great efforts.





24th Jan, 2023

DATE



D S Kothari Centre for Research and Innovation in Science Education

Miranda House, University of Delhi





SUMMER INTERNSHIP PROGRAM 2023

Flavor of Research

Investigative Projects in Multidisciplinary Contexts 06 June to 18 July 2023

This is to cornify that Debangshi Dasgupta of Swami Sharaddhanand Callege carried out a project on In Silica characterization of Stress gener and proteins --

at the summer internship program by DS Kothari Centre for Research and Innovation in Science Education, Miranda House, University of Delhi.

Professor Monika Tomar Coordinate DSKC Monita Hause

Professor Bijayalaxmi Nanda Principal Miranda House



CERTIFICATE



Vandana Kumari

Marketing and Finance Internship

Certificate of Completion 10th September, 2022

Over the period of July and August 2022, Vandana Kumari has completed 30 Day(s) internship in MBA HUB partnered with Angel One and ICICI Direct in :

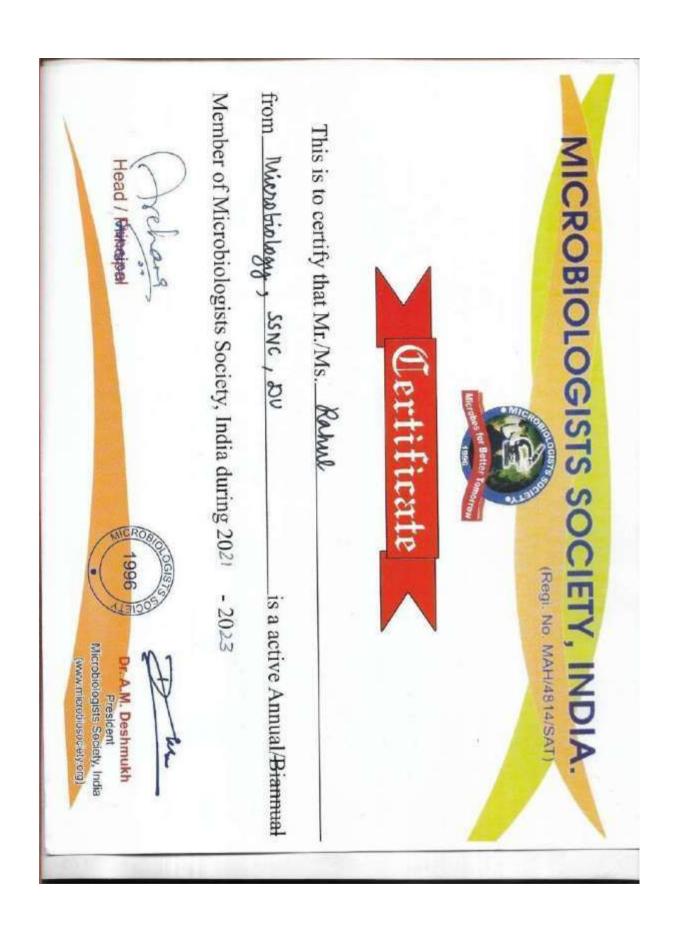
Marketing and companies case study finance and stock market fundamentals.

Animesh Kumar (Founder)



Reference D : KTO357100W9A7857

Issued By : MBA HUB





THIS CERTIFICATE IS AWARDED TO

VANDANA KUMARI

For completing your one Month Human Resource Internship and handling it all like a Champ! We wish you well in your future endeavours!

PRASHANT SHUKLA
Founder & President,
NavePankh Foundation

10th February , 2023

DATE

Society Reg No.: KAP/04397/2021-2022



100 DAYS SKILL FESTIVAL



Organized by

Centre for Innovation in Infectious Disease Research, Education and Training (CHDREI), University of Delhi South Campus

Delhi School of Skill Enhancement and Entrepreneurship (DSSEED), University of Delhi with Academic partner

Rajdhani College, University of Delhi

This is to certify that Abhi Raj has attended and successfully completed the National Workshop on "Python for Physical Sciences & Its Practical Approach" held from January 30-3 February 2023, at Rajdhani College, University of Delhi.

Armit Cuthe Professor Amita Gupta Director, CHDRET

CIIDRET

Dr. Vijay Chaudhary Director (Hon.), DSSEED-IoE

िराजी विश्वविद्यालय INSTITUTION OF EMINENCE University of Dethi प्रतिष्टित संख्याम

Prof. Rajesh Giri Principal, Rajdhani College



TRAINING & INTERNSHIP PROGRAM

IN ASSOCIATION WITH ANTARAGNI, IIT Kanpur



DATE 30" March 2022

TO WHOM IT MAY CONCERN

This is to confly that Divitrisman Sharall, an student of Swami Shraddhanand College, University of Delhi had registered for Training and Internship Program 2022 with Ethical Edutabrica Pvt. Ltd. conducted in association with ANTARAGNI, BT Kanpur in the month of February-March 2022. As a part of the Training and Internation program, the candidate was required to undertake a project showcasing the aspects of the chosen training program and as criteria towards fireshing the internation.

So hereby with this latter, we acknowledge that the student has done the internship on the topic of 'Antibiotic resistance' in WEDICAL MICROBIOLOGY & IMMUNOLOGY as a part of the internship and the project has exhibited the student's ability and still in adapting the training structure into its practical nature and focusing on the core elements of the training. The Project was satisfactory and had calered to all the way briefs handed to the student as an outline for the project.

The candidate during internship with us has shown diligence and perseverance adhering to the internship protocols set by the company and made ours that the given tasks were handled and performed with great outcome.

We wish the cardidate all the very best for the future.

Shower Chess

Diffical Educations a Per, LLC.









1.3.2 -Experiential learning (2018-23) Department of Microbiology



Educational Trip Report on 30th January 2020

One day educational trip was organized by the department of microbiology to visit the National Institute of Food Technology Entrepreneurship and Management, HSIIDC Industrial Estate Kundli, Sonipat. The trip comprised of third and second year students of B.Sc. (Hons.) Microbiology, accompanied by Dr. A. Archana, Dr. Parvinder Kaur, Dr. Lakshna Mahajan and Dr. Sweta Yadav on 30th January, 2020. This was quite useful towards making the students understand the basic aspects of Food Technology and its applications.

NIFTEM is the brainchild of the Ministry of Food Processing Industries (MoFPI)Government of India. MoFPI in its Vision document-2015, envisaged creation of a world-class institution to cater to the various stakeholders such as entrepreneurs, food processing industry, exporters, policy makers, government and existing institution. NIFTEM is a prime academic institution in the areas of food technology, entrepreneurship and management, it also offer courses and training programmes of global standards with optimal mix of inputs on food technology, management and entrepreneurship.

Students along with the faculty members visited the Food Science and Technology Department. The visit started with a presentation explaining innovation in food sector and the growth of food processing industry in India in global context. They explained that a part from imparting world – class education in the field of food science and technology, the department has research programmes in frontline areas of Food Science and Technology. The department was also involved in skill development of the farmers and industry personnel. Unlike the existing food science institutes in India, NIFTEM function as a center for integrated education, research, enterprise incubation and outreach in the area of food science, technology and business. After presentation the students visited the state-of-the-art laboratories, incubation centers, and pilot plants followed by food engineering lab, food packaging lab, microbiology lab and central instrumentation lab. The library was adequately furnished with contemporary tools and materials, including printed books, journals, online databases, e-books, e-journals, and many more.

This visit was very beneficial for the students as they learnt the important aspects of Skill and Entrepreneurship Development in food technology. Business Incubation Services to conduct Frontier Area Research and foster Innovation for development of the sector.

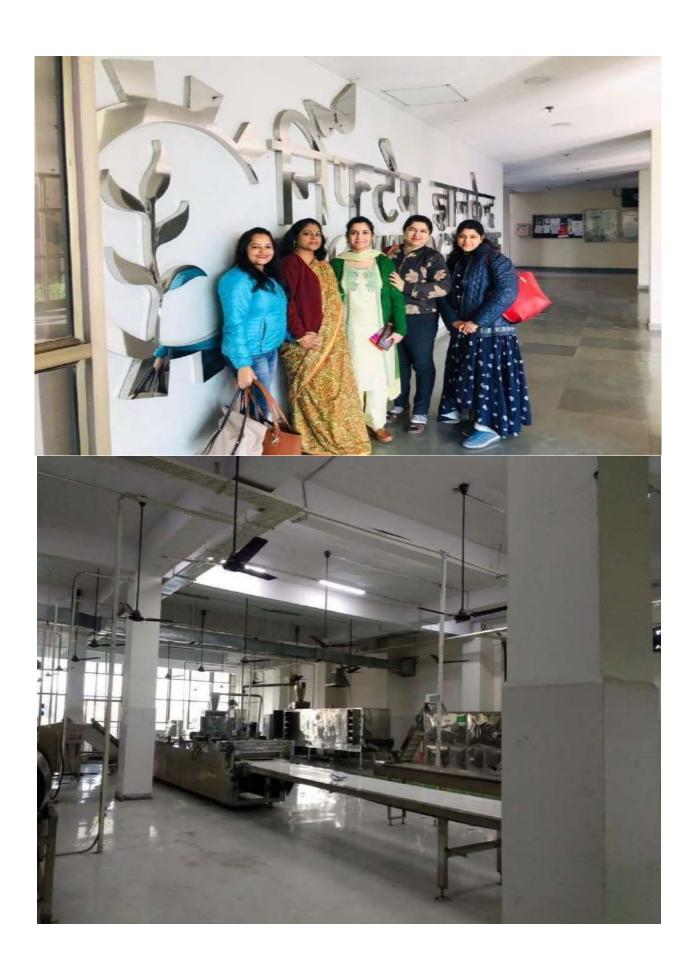














1.	Satakshi Attendance	4601	SataKahi
2.	Monika Kalyan	4603	Floriba
3.	Taranjeet kaur	4604	Today
4.	Shikher Tyagi.	4606	On har
5.	Rishika	4607	Righiba
6.	Kanishka	4610 /	Dislaye
7.	Parul Kakkar.	4611	Marue
8.	Charvi Lakhani.	4615	Charles
9.	Siddhi Soni.	4619	Sdah
10.	Parthojeet Nag.	4620	Tolage
11.	Gargi	4625	Garge
12.	Bharmjeet	4628	Blowjest
13.	Harsh.	4631	Hum
14.	Rajesh Kumar	4638	even
15.	Rakesh	4642	Rabesh
16.	Madhu Gupta	4643	Madhi
17.	Mobina	4644	Mobina
18.	Abhishek	4641	Coffee

1.	Lalita.	4601	MILE
2.	Manshi Rana.	4603	Mami
3.	Priyanka.	4606	Kriyani
4.	Milind Raj.	4609	Miller
5.	Neelima.	4611	Myself
6.	Sagar Atri.	4612	100
7.	Neha. Rani.	4620	MehaRa
8.	Sourabh	4621	Soural
9.	Kritika Jha.	4626	KJ
10.	Apoorv Pasi.	4627	Alui
11.	Komal.	4631	Quelly
12.	Ashita Mehra.	4636	Phillips
13.	Ankita Singh.	4637	GANTE
14.	Deelip Kumar.	4638	Deelip
15.	Ayushi.	4639	Ayush
16.	Twinkle Yadav.	4640	Just 1
17.	Happy Kumari.	4641	an
18.	Naushad Ali.	4642	News
19.		4643	Sakun
20.	Mihir Vardhan.	4622	MAN A

FEEDBACK FORM Educational trip to National Institute of Food Technology Entrepreneurship and Management, HSIIDC, Industrial Estate, Kundli, Sonipat, Haryana 131028 By Department of Microbiology, Swami Shraddhanand College, University of Delhi Date: 30.01,2020
Name of the participant: Kanishka
Student/Faculty/Others: Student
Course and Semester. B.Sc. (Hans.) Microbiology, II ad year
Contact: 82670 93864 Signature
(Tick Mark) Yes No
The trip was appropriate, informative and interesting.
The program was well paced within the allotted time
3. Did the visit meet the purpose?
Did the instructor engage the pupil's attention?
Were lectures and demonstrations presented in an organized manner
6. Did you learn something new?
7. Did you feel free to ask questions during the tour
8. The arrangements were satisfactory (Time and Venue)
I would be interested in attending future events
10. How did this trip support enhanced your learning and understanding of the subject? 9t was great experience to visit NIFTEM. They 11. Any other explained the processed very well followed by suggestions visit to manufacturing wills.

By Department of Microbiology, Swami Shraddhanand College, University of Delhi Date: 30.01.2020 Name of the participant: Rakesh Student Course and Semester: Student Course and Semester: Bsc (Hears) Microbiology II year Email: Contact: 96 f 11250 46 Signature: (Tick Mark) Yes No 1. The trip was appropriate, informative and interesting. 2. The program was well paced within the allotted time 3. Did the visit meet the purpose? 4. Did the instructor engage the pupil's attention? 5. Were lectures and demonstrations presented in an organized manner 6. Did you learn something new? 7. Did you feel free to ask questions during the tour 8. The arrangements were satisfactory (Time and Venue) 9. I would be interested in attending future events	FEEDBACK FOI Educational trip to National Institute of Foo and Management, HSIIDC, Industrial Estate,	od Technology Entrepreneurship
Name of the participant: Rakesh Student/Faculty/Others: Student Course and Semester: BSC (Hears) Microbiology Email: Contact: 96 + 11250 + 6 Signature: (Tick Mark) Yes No 1. The trip was appropriate, informative and interesting. 2. The program was well paced within the allotted time 3. Did the visit meet the purpose? 4. Did the instructor engage the pupil's attention? 5. Were lectures and demonstrations presented in an organized manner 6. Did you learn something new? 7. Did you feel free to ask questions during the tour 8. The arrangements were satisfactory (Time and Venue) 9. I would be interested in attending future events	By Department of Microbiology, Swami Shraddl	hanand College, University of Delhi
Course and Semester: BSC (Hous) Microbiology II Years Email: Contact: 96 # 11250 46 Signature: (Tick Mark) Yes No 1. The trip was appropriate, informative and interesting. 2. The program was well paced within the allotted time 3. Did the visit meet the purpose? 4. Did the instructor engage the pupil's attention? 5. Were lectures and demonstrations presented in an organized manner 6. Did you learn something new? 7. Did you feel free to ask questions during the tour 8. The arrangements were satisfactory (Time and Venue) 9. I would be interested in attending future events		
Contact:	Student/Faculty/Others: Student	
1. The trip was appropriate, informative and interesting. 2. The program was well paced within the allotted time 3. Did the visit meet the purpose? 4. Did the instructor engage the pupil's aftention? 5. Were lectures and demonstrations presented in an organized manner 6. Did you learn something new? 7. Did you feel free to ask questions during the tour 8. The arrangements were satisfactory (Time and Venue) 9. I would be interested in attending future events		Microbiology II Year
1. The trip was appropriate, informative and interesting. 2. The program was well paced within the allotted time 3. Did the visit meet the purpose? 4. Did the instructor engage the pupil's attention? 5. Were lectures and demonstrations presented in an organized manner 6. Did you learn something new? 7. Did you feel free to ask questions during the tour 8. The arrangements were satisfactory (Time and Venue) 9. I would be interested in attending future events	Contact: 9671125046 SI	gnature:
2. The program was well paced within the allotted time 3. Did the visit meet the purpose? 4. Did the instructor engage the pupil's attention? 5. Were lectures and demonstrations presented in an organized manner 6. Did you learn something new? 7. Did you feel free to ask questions during the tour 8. The arrangements were satisfactory (Time and Venue) 9. I would be interested in attending future events		(Tick Mark) Yes No
3. Did the visit meet the purpose? 4. Did the instructor engage the pupil's attention? 5. Were lectures and demonstrations presented in an organized manner 6. Did you learn something new? 7. Did you feel free to ask questions during the tour 8. The arrangements were satisfactory (Time and Venue) 9. I would be interested in attending future events	The trip was appropriate, informative and interesting.	
4. Did the instructor engage the pupil's attention? 5. Were lectures and demonstrations presented in an organized manner 6. Did you learn something new? 7. Did you feel free to ask questions during the tour 8. The arrangements were satisfactory (Time and Venue) 9. I would be interested in attending future events	2. The program was well paced within the allotted time	1
5. Were lectures and demonstrations presented in an organized manner 6. Did you learn something new? 7. Did you feel free to ask questions during the tour 8. The arrangements were satisfactory (Time and Venue) 9. I would be interested in attending future events	3. Did the visit meet the purpose?	~
6. Did you learn something new? 7. Did you feel free to ask questions during the tour 8. The arrangements were satisfactory (Time and Venue) 9. I would be interested in attending future events	4. Did the instructor engage the pupil's attention?	
7. Did you feel free to ask questions during the tour 8. The arrangements were satisfactory (Time and Venue) 9. I would be interested in attending future events	5. Were lectures and demonstrations presented in an organ	lized manner 🗸
8. The arrangements were satisfactory (Time and Venue) 9. I would be interested in attending future events	6. Did you learn something new?	~
9. I would be interested in attending future events ———————————————————————————————————	7. Did you feel free to ask questions during the tour	1
	8. The arrangements were satisfactory (Time and Venue)	
	9. I would be interested in attending future events	
10. How did this trip support enhanced your learning and understanding of the subject? महा का क्षेत्रिक अमल अहद टी जानशाल या । फार्नेटर डीप फीलर क्लिसिंग मुशीन, इत्यादि वास्तविकता में देखने की मिला और suggestions बार में आरोकों से जानने की मिला। साथ ही क्षेरी बरी	10. How did this trip support enhanced your learning and ur महों का ब्रोमिक भूमाव बेहद टी ज्ञान ब्लोसिंग मुशीन, इत्यादि वास्तविकात suggestions	भारत था । फार्नेटर डीप फ्रीनर अ ग में देखों की मिला और उ को मिला। सांच ही क्षोटी बड़ी र
No.		्यीत्रे वान



Educational Trip Report



Organized by

The Department of Microbiology on 30th January 2020

One day educational trip was organized by the department of microbiology to visit the factory of Yakult Danone India Ltd. at Rai, Sonipat. The trip comprised of the third and second year students of B.Sc. (Hons.) Microbiology, accompanied by Dr. A. Archana, Dr. Parvinder Kaur, Dr. Lakshna Mahajan and Dr. Sweta Yadav on 30th January, 2020. This was quite useful towards making the students understand the basic and industrial aspects of Food Microbiology.



As a pioneer in probiotics, Yakult has formidable research capabilities and technological advances in the field of probiotics. It is backed by more than 80 years of research, and more than 100 human studies have been conducted in the world including India, on Yakult's probiotic bacteria, *Lactobacillus casei* strain *Shirota* (LcS). The studies have indicated that regular consumption of Yakult helps improve digestion and helps build immunity.



The journey was started at 9:00 am in the morning and everyone reached at the location at 10:00 am. Mr. Aadish, Executive, Public Relation department, Yakult Danone India Pvt. Ltd. warmly

welcomed everyone. Yakult (a probiotic fermented milk drink) were served to all students and teachers.

Mr. Aadish explained through a PowerPoint presentation about the origin of the company, the importance of the Probiotic Drink, the Production Process, Marketing and Distribution of the Product. During the visit, the students visited various Production and Manufacturing Units like Seed Room, Culture & Mixing Room, Quality Control, Bottle Molding, Machine Room, Packaging Room and Quality Checking. After that all students along with faculty members were taken to the site, where the plant to produce Yakult was installed.









The visit was a fruitful experience for the students as they learned the processing stages and the latest technology in producing processed products. It also provided them an opportunity to familiarize themselves with the industrial environment. Students got insight about the Operations & Production at Yakult. It was a worthwhile learning experience for the students as they gained an understanding of how an industry operates.

List of Students

1.	Lalita.	4601	valle-
2.	Manshi Rana.	4603	Mamsi
3.	Priyanka.	4606	Triyank
4.	Milind Raj.	4609	Miller
5.	Neelima.	4611	They aling
6.	Sagar Atri.	4612	100
7.	Neha. Rani.	4620	Meha Raw
8.	Sourabh	4621	Soureth
9.	Kritika Jha.	4626	KJ
10.	Apoorv Pasi.	4627	Alui
11.	Komal.	4631	Pully
12.	Ashita Mehra.	4636	Ashigh
13.	Ankita Singh.	4637	GARAGE S
14.	Deelip Kumar.	4638	Deelip.
15.	Ayushi	4639	Ayush
16.	Twinkle Yadav.	4640	July 1
17.	Happy Kumari.	4641	On
18.	Naushad Ali.	4642	Noundi
19.	The second secon	4643	Sakun
20.	Mihir Vardhan.	4622	Mrs.

1.	Satakshi	4601	SataKshi
2.	Monika Kalyan	4603	Honiba
3.	Taranjeet kaur	4604	Today
4.	Shikher Tyagi.	4606	Justin
5.	Rishika	4607	Rishibu
6.	Kanishka	4610 /	Lidaye
7.	Parul Kakkar.	4611	Maguel
8.	Charvi Lakhani.	4615	Charles
9.	Siddhi Soni.	4619	Sdah
10.	Parthojeet Nag.	4620	Trag
11.	Gargi	4625	Garge
12.	Bharmjeet	4628	Blowjest
13.	Harsh.	4631	Hum
14.	Rajesh Kumar	4638	each
15.	Rakesh	4642	Rabesh
16.	Madhu Gupta	4643	Madle
17.	Mobina	4644	Mobina
18.	Abhishek	4641	Coles

	FEEDBACK FORM Educational trip Yakult Danone India Ltd. at Rai, Sonipat
	By Department of Microbiology, Swami Shraddhanand College, University of Delhi Date: 30.01.2020
	Name of the participant Neelina
	Student Faculty Others: Student
	Course and Semester B. Sc. (4) Microbiology II year Email:
	Email:
	Contact: 9643683561 Signature: NeeUnt.
	(Tick Mark) Yes No
1.	The trip was appropriate, informative and interesting.
2	The program was well paced within the allotted time
3.	Did the visit meet the purpose?
4.	Did the instructor engage the pupil's attention?
5.	Were lectures and demonstrations presented in an organized manner
6.	Did you learn something new?
7.	Did you feel free to ask questions during the tour
8	The arrangements were satisfactory (Time and Venue)
) .	I would be interested in attending future events
	How did this trip support enhanced your learning and understanding of the subject?
1.	It was nice to know about the industrial Any other application of food technology.
	No

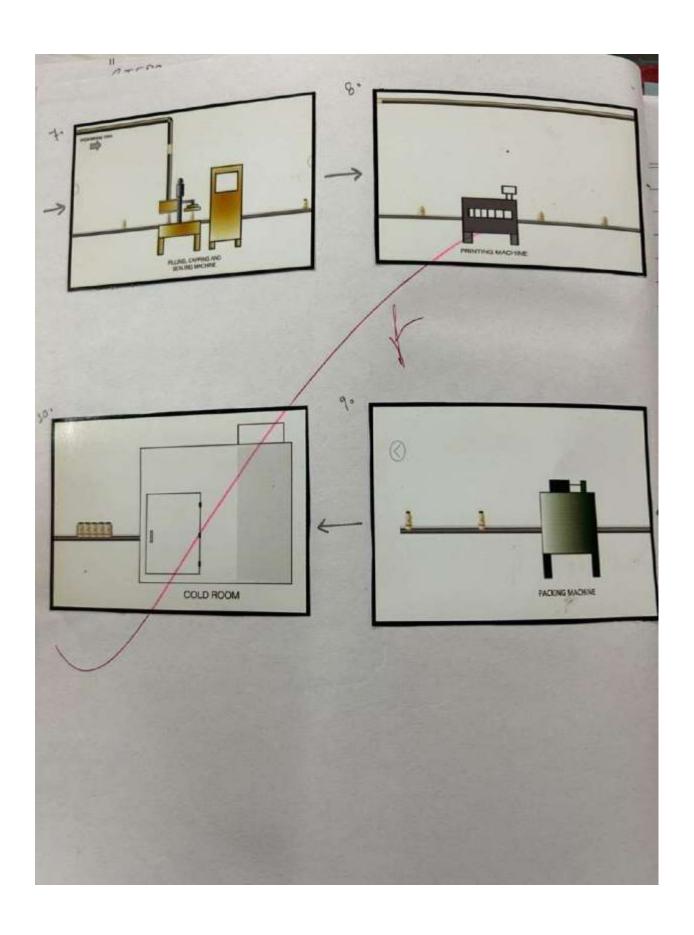
	Educational trip Yakult Danone India I By Department of Microbiology, Swami Shraddhana		
	Name of the participant: Hobina		
	Student/Faculty/Others: Student		
	Course and Semester B. Sc. (H) Muro	biology	
	Course and Semester: B.Sc. (H) Music Email: Contact: 7903870229 Signat		
	Contact: <u>790387022</u> 9 Signat	ure: July	
		(Tick Mark) Yes No	
E	The trip was appropriate, informative and interesting.	Yu .	
2.	The program was well paced within the allotted time	tis	
3.	Did the visit meet the purpose?	ıs	
4.	Did the instructor engage the pupil's attention?	ıs	
5.	Were lectures and demonstrations presented in an organize	d manner Yu	
6.	Did you learn something new?		
7.	Did you feel free to ask questions during the tour	"Us	
8.	The arrangements were satisfactory (Time and Venue)	tis Mis	
9.	I would be interested in attending future events	Mis	
10	. How did this trip support enhanced your learning and und	erstanding of the subject? It st	renk
11	How did this trip support enhanced your learning and und intered in the filed of find. Any other valueble isoght their will	anist he in my Just	her
	suggestionsNo		
	100		-

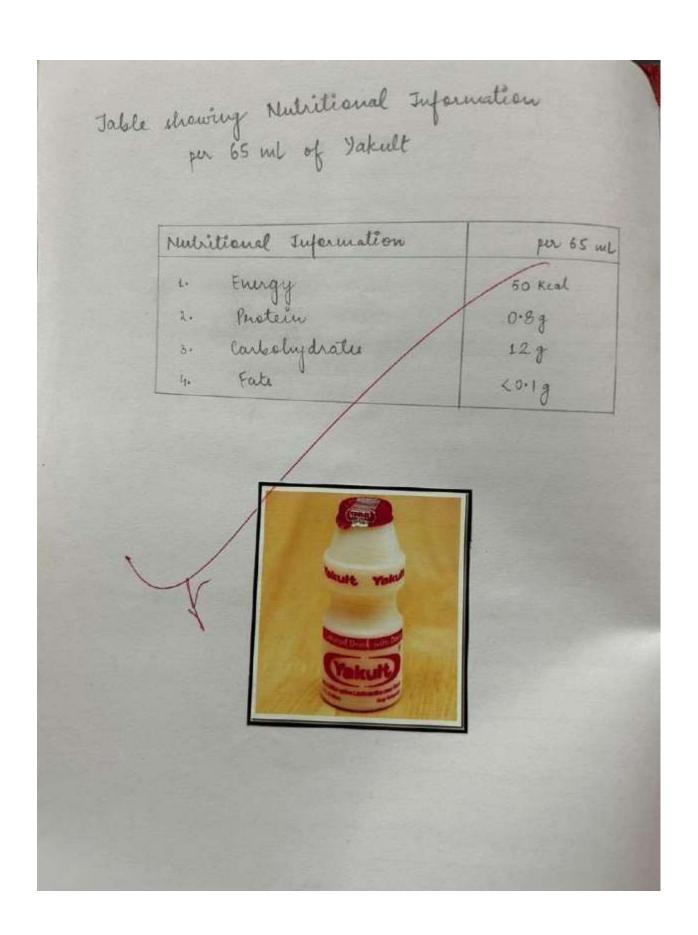
Name of the participant: Bhany cell Student/Faculty/Others: Student Course and Semester: B.Sc. (Hons.) Microbiology, 2 Jean Email: Contact: 9873278102 Signature: (Tick Mark) Yes No 1. The trip was appropriate, informative and interesting. 2. The program was well paced within the allotted time 3. Did the visit meet the purpose? 4. Did the instructor engage the pupil's attention? 5. Were lectures and demonstrations presented in an organized manner 6. Did you learn something new? 7. Did you feel free to ask questions during the tour 8. The arrangements were satisfactory (Time and Venue) 9. I would be interested in attending future events 10. How did this trip support enhanced your learning and understanding of the subject? It was a making to learn about the pilot plant facilities		Educational trip Yakult Danone India Ltd. at Rai, Sonipat By Department of Microbiology, Swami Shraddhanand College, University of Delhi Date: 30.01.2020
Student/Faculty/Others: Student Course and Semester: B.Se (Hons.) Microbiology, 2" year. Email: Contact: 9843248102 Signature: (Tick Mark) Yes No 1. The trip was appropriate, informative and interesting. 2. The program was well paced within the allotted time 3. Did the visit meet the purpose? 4. Did the instructor engage the pupil's attention? 5. Were lectures and demonstrations presented in an organized manner 6. Did you learn something new? 7. Did you feel free to ask questions during the tour 8. The arrangements were satisfactory (Time and Venue) 9. I would be interested in attending future events		Name of the participant: Bhanyeet
Course and Semester. B. Se. (Hons.) Nicrobiology, 2" Year. Email: Contact: 98132.78102. Signature: (Tick Mark) Yes No 1. The trip was appropriate, informative and interesting. 2. The program was well paced within the allotted time. 3. Did the visit meet the purpose? 4. Did the instructor engage the pupil's attention? 5. Were lectures and demonstrations presented in an organized manner. 6. Did you learn something new? 7. Did you feel free to ask questions during the tour. 8. The arrangements were satisfactory (Time and Venue). 9. I would be interested in attending future events.		Student/Faculty/Others Student
Contact:		Course and Semester: B. Se (Hons.) Microbiology, 2" Year.
1. The trip was appropriate, informative and interesting. 2. The program was well paced within the allotted time 3. Did the visit meet the purpose? 4. Did the instructor engage the pupil's attention? 5. Were lectures and demonstrations presented in an organized manner 6. Did you learn something new? 7. Did you feel free to ask questions during the tour 8. The arrangements were satisfactory (Time and Venue) 9. I would be interested in attending future events		Email:
1. The trip was appropriate, informative and interesting. 2. The program was well paced within the allotted time. 3. Did the visit meet the purpose? 4. Did the instructor engage the pupil's attention? 5. Were lectures and demonstrations presented in an organized manner. 6. Did you learn something new? 7. Did you feel free to ask questions during the tour. 8. The arrangements were satisfactory (Time and Venue). 9. I would be interested in attending future events.		Contact: 9873278102 Signature:
2. The program was well paced within the allotted time 3. Did the visit meet the purpose? 4. Did the instructor engage the pupil's attention? 5. Were lectures and demonstrations presented in an organized manner 6. Did you learn something new? 7. Did you feel free to ask questions during the tour 8. The arrangements were satisfactory (Time and Venue) 9. I would be interested in attending future events		(Tick Mark) Yes No
3. Did the visit meet the purpose? 4. Did the instructor engage the pupil's attention? 5. Were lectures and demonstrations presented in an organized manner 6. Did you learn something new? 7. Did you feel free to ask questions during the tour 8. The arrangements were satisfactory (Time and Venue) 9. I would be interested in attending future events	1,	The trip was appropriate, informative and interesting.
4. Did the instructor engage the pupil's attention? 5. Were lectures and demonstrations presented in an organized manner 6. Did you learn something new? 7. Did you feel free to ask questions during the tour 8. The arrangements were satisfactory (Time and Venue) 9. I would be interested in attending future events	2,	The program was well paced within the allotted time
5. Were lectures and demonstrations presented in an organized manner 6. Did you learn something new? 7. Did you feel free to ask questions during the tour 8. The arrangements were satisfactory (Time and Venue) 9. I would be interested in attending future events	3.	Did the visit meet the purpose?
6. Did you learn something new? 7. Did you feel free to ask questions during the tour 8. The arrangements were satisfactory (Time and Venue) 9. I would be interested in attending future events	4.	Did the instructor engage the pupil's attention?
7. Did you feel free to ask questions during the tour 8. The arrangements were satisfactory (Time and Venue) 9. I would be interested in attending future events	5,	Were lectures and demonstrations presented in an organized manner
8. The arrangements were satisfactory (Time and Venue) 9. I would be interested in attending future events 10. How did this trip support enhanced your learning and understanding of the subject?	6.	Did you learn something new?
9. I would be interested in attending future events 10. How did this trip support enhanced your learning and understanding of the subject?	7.	Did you feel free to ask questions during the tour
10. How did this trip support enhanced your learning and understanding of the subject?	8.	The arrangements were satisfactory (Time and Venue)
10. How did this trip support enhanced your learning and understanding of the subject? It was amazing to have about the pilot plant families	9.	I would be interested in attending future events
suggestions apprehiment of 100d industry. It was	10.	How did this trip support enhanced your learning and understanding of the subject? It was a making to lumin about the pilot plant facilities. Any other production & application of food industry. It was a suggestions. Inspect
NO		

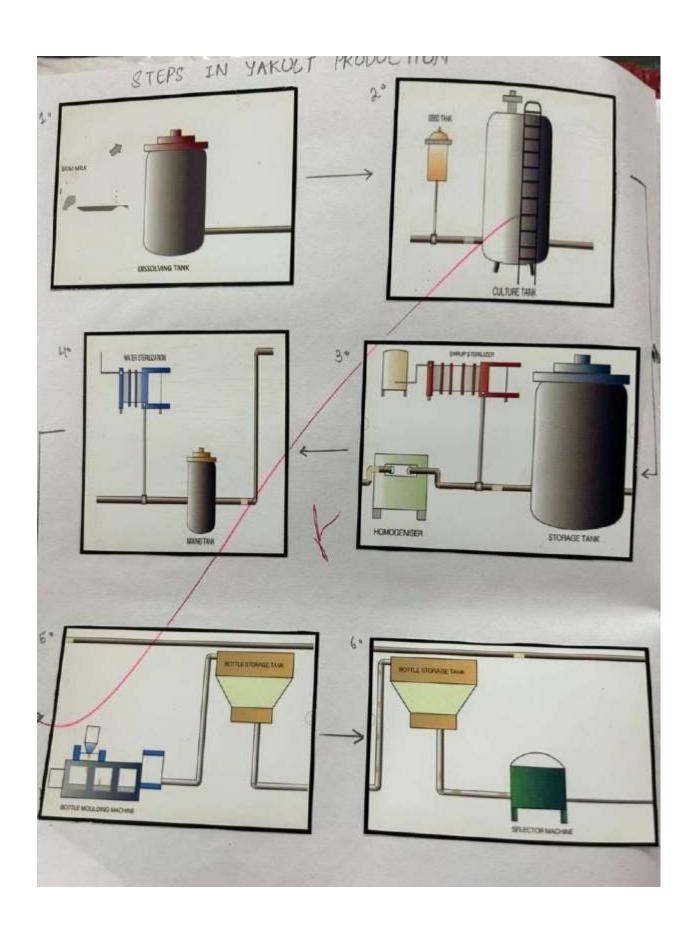
	PAGE NO DATE 2 08 17
experiment no.	- 1 (P)
Jo visit any industry to see father downstream processie	
f other downdream processie	ng operations.
According to WHO, "Probiotics	are live microorganisme
According to WHO, "Probiotics which when administered in a health benefit on the hos	t."
by suffressing the growth restoring the balance of gut	of bad bacteria and
Introduction/	
In 1930, Dr. Minoru Shirota casci strain Shirota which	was beneficial to
human health. The bacteria	reach intestine alim
I impost a health benefit.	the und it to make drink which contains
a scientifically froven prol	sistic drink. Saily
function of Yakult helps	improve intestinal

9. The finished Yakult is corted in a pack bottles that is shrink wrapped in polypropyles and leaded into a crate. Me crates containing Yakult are transferted to the cold room conveyer belt. w. In the cold room, the finished products refrigerated at 5°C to ensure their best condition before distribution. Quality control Measures carried out at Peroduction Unit :-. More than 100 checks are carried out to ensure that the final product tastes right and epice care is taken to esfeguard viability of Yakult bacteria · Workers weger frotective clothes · Workers sanitize their hands and pass through air shower before entering the production area · Battling and filling area is controlled with · frequent testing at on-site quality control division

	PAGE NO DATE
	base to form conc. Yakult and the tank is chilled at 5°C.
4.	The cource Yakult is transferred to the mixing tank and diluted with sterilized water. Natural flavours and permitted colouring are added at this stage for flavoured Yakult and the diluted mixture is
	The plastic bottles are funduced by the moulding machine at the exceed of 7000 bottles per hour. Thus bottles (polystynen) are transported by clean
-	air blower through a duct to the storage tank. From the storage tank, the empty bottles are transferred to selector Machine which arranges
-	to the printing machine. The printing machine prints Yakult logo, the inguedients etc. used on the empty battles using instant day and ink.
	from the Printing Machine, the frinted bottles are sent to filling Machine which has the capacity to fill 30,000 bottles with Yakult per hour. At
	with an Aluminium foil that has " use by date" frient.







PAGE NO. DATE Production of Yakult. Yakult's first state of art publistic located at Rai, Sonepat, Haryana. follows the most hygienic and manufacturing process ensuring the products day after day glucose Lactobacillus Shirota (has). It is free from colouring and stabilizers It is a step by step process where 1. Skimmed milk powder is dissolved (50'-55'c) in dissolving tank to make milky From the dispolving tank, the milky solution transferred to culture tank and 1. casci strain suirota from the seed added into tank to firment the solution until has concentration reaches ideal changes into and form known as culture The culture base is passed through homogenizer to make it into fine texture is transferred to storage tank. In

- 100	
	PAGE NO DATE
	ensures the product is highest standard uptil the date of expiry.
•	Every batch of Yakult is produced of monitored for 24 hre before it is dispatched for sale.
	The Indian Plant has ISO 9001: 2008, HACCP, OHSAS accreditation for manufacturing a safe quality feeduct for its customers.
	Visit - whe visited the Yakult Publisher Industry at Rai, Haryana to see its operations we were debriefed
	followed by a visit to see its production unit.
	prepared cample from the unit overall, it was
	conducted by our department with the help of Yakult brobbotic Industry.
	(w 25 2 1 1
1	

	University Roll No.		Name	Class Test	Assig. Mar	Attd. out of 5	7810569 Total out of 25	Signature
1	16081564001	4601	SHIVAM AGGARWAL	8.75	9,5	5	22 35	Shire
2	16081564002	4602	PRATIKSHA SHUKLA	5.5	8.0	1	14.5	Platikat
3	16081564003	4607	ABHISHEK SINGH	6.0	9.0	5	20.0	prisher
4	16081564004	4608	AMIT KHATRI	7.5	9.0	5		Antklah
5	16081564005	4612	SAHIBA	5.25	7.0	2		caliba
6	16081564006	4614	SRIJITA ROY	7.5	8.5	Ī.	17.0	1. Ray
7	16081564007	4617	SHUBHAM AGGARWAL	9.0	10.0	5	24.0	Judia
8	. 16081564008	4618	ABDUL RAHMAN	8.0	9.5	5	22.5	Abdul
9	16081564009	4619	SIMRAN GAGNEJA	9.5	9.5	5	24.0	Ragnija
10	16081564010	4623	NISHKARSH JAIN	8.25	10.0	5	23.25	NITH
11	16081564011	4624	NEHA-UPADHYAY		-	-	0	-
12	16081564012	4625	VANSHIKA RASTOGI	9.5	9.5	3	22.0	Mardika.
13	16081564013	4626	JYOTI	3.5	8.0	1	12:5	Justi
14	16081564014	4627	MOHD SHADAB	6.5	8.5	5	20.0	dhered
15	16081564015	4628	MEENAKSHI	7.0	9.5	5	21.5	Meenal
16	16081564016	4629	MOHINI	7.0	9.0	4	20.0	Malie
17	16081564017	4632	MONICA PANDITA	6.5	9.0	5	20.5	monic
18	16081564018	4635 -	ŅEHA SINHA	6-75	7-0	2	15.75	Nehaber
19	16081564019	4637	ANKIT VERMA	0.75	Notgwen	0	0.45	Ankila
20	16081564021	4643	SHUBHAM VERMA	4.25	8.0	4	16-25	Mulder
21	16081564022	4646	KUMARI MANISHA	3.25	8.5	5	16-75	ast -
22	16081564023	4647	ANSHU	4.5	9.0	0	13.5	Ansh
23	16081564025	4652	NUPUR TYAGI	9.0	10.0	5	24.0	Central
24	16081564026	4654	RITU MANN	8.25	100	5	23.25	
25	16081564027	4656	DEEPANSHU	9.0	9.5	2	20.5	Deepu
	16081564029	4641	SHABYA SINGH	5.5	7.5	0.	13.0	Shabyo
6		4651	SONIKA	4.0	8.0	3	15.0	Souke
27	16081564030		ABHISHEK SHARMA	5.5	7.0	0	12.5	BLVELV
28	16081564031	4611			COLUMN TWO IS NOT THE OWNER.	Signatu	D	de K
33	NOTE: Kindly sub	omit original atte	endance sheet along wi	tn periorina	N .	Joighace	re. four	16 11 11

EXCURSION TRIP TO MEHRAULI ARCHAEOLOGICAL PARK AND QUTUB COMPLEX

PRESENTED BY : SWAMI SHRADDHANAND COLLEGE





Prof. Parveen GargPrincipal



Prof. Ranjan Kumar (Teacher in charge)



Dr. Aditi Govil(Assistant Professor Dept. of history)

Report on Excursion trip to Mehrauli Archaeological park and Qutub Complex

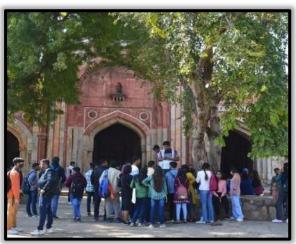
Date: 9th Feb 2023



On 9th feb 2023, one day excursion trip was organized by ATEET The history association, Department of History, Swami Shraddhanand College. We are very much thankful to the team of ASI, Ankit Sahay sir, Divya Sharma ma'am and Sarfaraz Hamid sir who accompanied the students on this heritage walk around the Mehrauli Archaeological Park and the Qutb Complex. This trip was organized and under the supervision of Mr. Ranjan Kumar (Teacher in Charge), Dr. Aditi Govil (Assistant professor, Department of History, SSN College) and Mr. Manish Sharma (Assistant professor, Department of History, SSN College). This trip comprised of around 60 students of all the 3 years of course B.A History (Hons.). The trip began from the college campus at 10:30 am, picking up all the students by bus for the destination of Mehrauli.









ABOUT THE SITES:

This heritage walk covered all the major sites of Mehrauli Archaeological park and Qutb Minar, located in the South delhi. Mehrauli is the 1^{st} of the 7 cities of Delhi covering around 200 acres. This whole site was redeveloped in 1997 with the collaborative efforts of DTTDC, DDA, INTACH.

This is a heavy tourist attraction spot in Delhi and the main reason behind this it's various architectures and historical significance in the indian history. We witness that the tourist visit to qutb complex is slightly larger than that of the mehlauli archaeological park. Because of being spread in a large area many of its sites mainly remain unexplored by the people grasping the sight of mostly students and researchers only. While gutb

complex architecture invites the people from all sphere. These sites gave us the insight of dynastic shift and gradual development and blending of architectural styles in various sites. The professors helped us in understanding the minute details of architecture and there significance in history.



QULIKHAN TOMB is reportedly built for the foster brother of akbar. This is built on an elevated platform resembling the Mughal architecture.it was octagonal from outside and four walled room from inside with one closed side in the west direction for prayer. This site was later seen under use by Sir Thomas Metcalf and was also used as a honeymoon destination by many foreign generals. The adjacent structures i.e metcalfe's bath house and Metcalf's boathouse are the development of Metcalf in his period of governance.

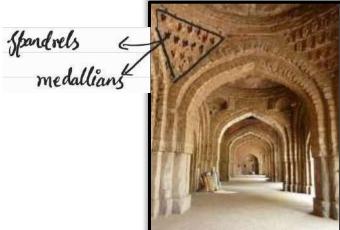
RAJON KI BAOLI It's purpose is not as it's name suggest. Reports says that it was mainly used by the servants and the architects. It's main purpose was as a water reservoir connected with a well adjacent to the structure. In the same compound we visited the mosque and tomb of khwaja mohammad on the Terrence which is an example of true domb.





JAMALIKAMALI mosque is an another important structure of mehrauli comprises of 2 structurs, i.e, mosque and tomb of jamali (court poet of lodi dynasty) and kamali(his desiple). This site is very unique having features of true arch and true domb. It's prayer hall is fronted by a courtyard, has 5 arches with the central arch only having a dome where the sizes of arches increases toward the central arch. Here also we found some indo-Persian influence in architecture like lotus motis.





While qutb complex consist of a mosque and two minarets enclosed within a series of cloistered precincts. It was entered via four monumental gates along the north, east and south walls, of which only the southern gate (Alai Darwaza) remains. A tall screen wall with pointed archways runs along the western edge of the precinct, creating a qibla wall for the prayer spaces. In addition to these elements, the complex also contains several smaller buildings: the Tomb of Iltutmish, Ala al-Din Khalji's madrassa, and the Imam Zamin Mosque. The Qutb Minar (minaret) stands in the southeastern part of this enclosure. The unfinished Alai Minar (minaret) stands in the northeastern part of the complex.

QUTB MINAR

The Minar comprises of several superimposed flanged and cylindrical shafts separated by balconies. All the storeys have a balcony that circles the Minar with stone brackets for support. The Minar is decorated throughout with floral motifs and arabesque. Also it bears inscriptions that are verses from the Koran and messages from the Sultans. The stone brackets are decorated with honeycomb design, more conspicuously in the first storey.

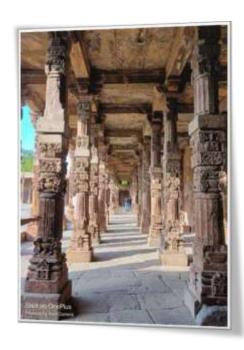
In a close study we found out that The first three stories are made of sandstone and the next two of marble and sandstone. Firoz Shah Tughlaq added marble to the top storey. The Minar is in fact believed to have been built to aid the Muezzin of the mosque for prayer calls.





QUWWAT-UL-ISLAM MASJID

To mark his victory over Rai Pithora, Qutub-ud-Din Aibak built the Quwwat-ul-Islam Masjid (Might of Islam) in 1192 which was completed in 1198. It is the earliest extant mosque in India, having a rectangular court. The court is enclosed by cloisters which were erected with carved columns and other architectural members from the 27 Hindu and Jain temples, which were later demolished.





ALAI DARWAZA

It is the southern gateway of the Quwwat-ul-Islam mosque, and is a gem of Islamic architecture in India. It has intricate carvings in red sandstone and marble. It has red stone jali screens. The arched entrances and jalis are decorated by fringes of lotus buds.

IRON PILLAR

The Iron Pillar dates back to the 4th century BC. It bears inscriptions that dedicate it as a flagstaff to honor the Hindu god Vishnu and in memory of Gupta king Chandragupta II (375-413 AD). The pillar is a symbol of the progress of metallurgy in ancient India. It is made of 98 percent wrought iron and has survived 1,600 years without rusting.





ILTUTMISH TOMB

It is a simple square chamber, covered originally by a circular dome that was carried on a form of squinch arch. Dome was constructed using concentric rings, but Hindu artisans couldn't make it last long. Inside is decorated and elaborated with Quranic verses. Marble is used in mehrab and cenotaph.

SCREEN OF ARCHES

It is an expansive screen of arches was added the entire front of the sanctuary to give mosque appearance. It formed into a great wall of masonry over 15 m in ht. At the centre, its width is 33 m and its thickness of 2.6 m. it has 5 arched openings consisting of largwr one in the centre and two lesser arches on either side.

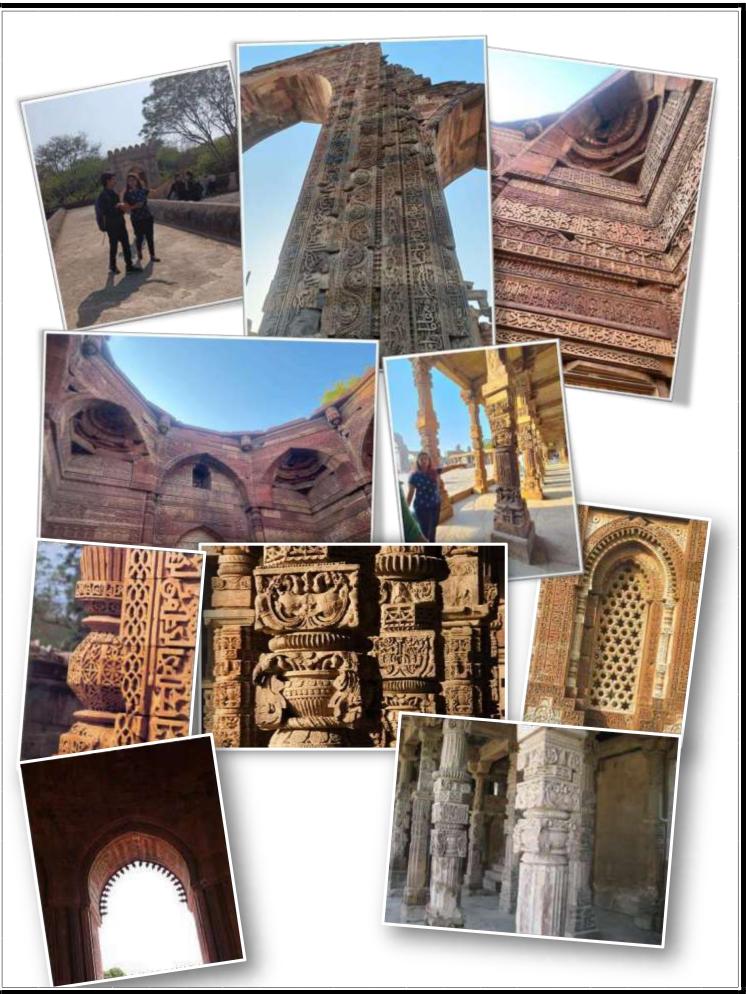


This excursion introduced students to a whole new world which wasn't seen or explored by us. It provided a break from the usual desk learning and this helped us to gain a fresh perspective from real world and gave a practical knowledge. It enhanced the practicle knowledge about understanding history and different architecture forms Islamic architecture including the decoration through precious marbel stones and calligraphy on walls, with medallions either carved with quaranic verses or decorated with floral design. Even we discovered new elements like some of the pillars from the Quwwat-ul-islam masjid were carved with numbers written in pali and Bengali scripts.

Thank you

Gallery





LIST OF STUDENTS:

1. Tannu	1601	32. Aman kumar Mishra	1661	63. Sakshi 1664
2. Salaudeen	1603	33.Aman kumar	1604	64.khushboo 1609
3. Khushi singh	1607	34. Abhishek kumar	1626	65. Ram babu1618
4. Kashmira rehman	1609	35. Shivam	1624	66.Abhimanyu1612
5. Chaitanya dutt	1610	36. Sakaham	1614	67. Alhan 1650
6. Aditi priya	1611	37. Ajay shakya	1622	68. Shivam 1666
7. Bharti Kumari	1612	38. Vashu	1603	69. Aditya 1660
8. Aman kumar	1614	39. Vinay kumar	1641	70. Aman 1602
9. Lav kumar	1616	40. Ankit kumar	1670	71. Tannu 1609
10. Pratishtha tiwar	1620	41. Manya	1647	72. Riya 1647
11. Mohd. Kaif	1622	42. Sambhavi	1663	73. saumya 1630
12. Kishan kumar	1628	43. Kavya	1627	74. Nishant 1687
13. Aarti	1629	44. Vipra	1613	75. Vikas 1645
14. Vishal kumar	1635	45. Kashish	1662	76. Anupam 1690
15. Aman giri	1637	46. Mohit yadav	1642	77. Ashish 1635
16. Uma Shankar	1640	47. Minnu	1628	78. Kajal 1667
17. Himanshu Rajput	1642	48. Shivani singh	1672	79. Rakesh 1620
18. Prachetas	1644	49. Abhishek anand	1653	80. Ananya 1654
19. Nishant mandal	1650	50. Shubham kumar	1639	81. Rohit 1631
20.Ankur	1655	51. Abhinav	1649	
21. Sujeet kumar	1658	52. Praniti singh	1629	
22.Kumari nidhi	1665	53. Divyanshu senapati	1619	
23.Kailash mandal	1666	54. Titiksh	1668	
24.Kajol rani mahato	1667	55. Raghav dogra	1638	
25.Naveen kumar	1673	56. Raman	1606	
26.Abhishek bharti	1676	57. Ankit thapa	1642	
27.Naman	1679	58. Kartik pal	1623	
28.Antas anand	1669	59. Ayush kumar yadav	1644	
29.Mustafa	1654	60. Raj patel	1651	
30.Aman raj	1663	61. Kartikey singh	1645	
31. Himanshu	1616	62. Akshat	1655	
	ı			I .

Feedbacks

It was a great trip and through this trip we got learn some wonderful historical events and their forms related with the historical places. I'm thankful to my history department which gave us an opportunity to see and learn physically historical things and I would be glad to visit such places in future also.

~Khusboo 1609

7:15 pm

It was one of the first college trip and a great one. This excursion was so informative. Got a real experience of the monuments and its past. Thankful to sarfraz Hamid sir for accompanying us. Overall it was an amazing experience.

~ Kajol Rani Mahato

7:57 pm

My experience to the Qutub Complex was extremely good .

Got to know about new things.

All the teachers (specially Aditi Mam) guided us for each and every architecture style and also about historical backgrounds of the monuments.

Transportation facility was also extremely satisfying.

Our CR's are also very helpful in entire expedition, from arranging meals to the proper transportation and successful managing whole expedition.

My experience to expedition was extremely satisfying and I will never gone to forget it.

17:05

Overall, it had an enjoyable day filled with dancing, good food, and exploring a remarkable monument. It's important to maintain a respectful attitude towards the historical site and its surroundings while having fun. Dancing in the bus adds an element of entertainment and excitement, Having lunch in a park is a great way to relax and enjoy the surroundings, Admire the grand architecture and the ornate carvings on the pillars.

Explore the Iron Pillar, an ancient rust-resistant iron column with inscriptions dating back to the 4th century AD. It's a remarkable piece of history and a popular attraction within the Qutub Minar complex.

By Sujeet Kumar B.A (hons) History

:56 pm

The excursion was very well planned by our fellow mates. I got to learn a lot of things about the architecture and the past of Indian history during Mughals. We had lots of fun during the journey. Looking forward for more trip and excursion from our history department and I will also try to help the department in any way possible.

- Kumari Nidhi

8:04 pm

It was nice trip and we are thankful for our history department and also want to travel new place for more information and learning something new

Aman Raj 1633

7:16 pm

Our last trip was good and memorable where we got to learn and have fun with our friends, I am very thankful to my history department which gave us an opportunity to see and learn physically historical things along with studying theory.

~ Aman Kumar1604

7:14 pm

It was very elated and wonderful visit and experience to such a good historical place (mehrauli garden ,qutub minar) .we got to learn so many things about our history and kings and queens related with the historical place. I would be delighted to visit such place and experience new things in future also.

~ Kavya Sethi 1627

7:16 pm

Our delhi excursion was a great historical adventure.it gave me a ton of knowledge and aroused my curiosity about the historical monuments. All in all it was a great experience.

13:23

It was a great experience on that trip and we learned many historical things and i hope, in future we visit such places again.

~ Raj Patel 1651

7:16 pm

It was a great trip .. well organised by Ateet. Got to learn a lot about history from a different insight. I got to know and understand a lot more about history than we usually read in books. It also changed my perspective of reading and understanding history as well.

- Ram Babu

B:Till pri

SIX DAY FIELD TRIP AND TRAINING REPORT ON BEE KEEPING DATE: FROM 24.09.2018 TO 29.09.2018 OF SSN COLLEGE, UNIVERSITY OF DELHI, ALIPUR, NEW DELHI 110036

INTRODUCTION

Dr Smita Shukla, Dr Pushpa, Mr Preetam Kumar Department of Zoology, Swami Shraddhanand College (University of Delhi) Alipur, Delhi 110036 organised six days field trip and training on honey bee keeping for the 45 students of B.Sc.Life Science Vth semester from 24.09.2018 to 29.09.2018

CENTRE NAME:-BEE KEEPING EXTENSION CENTRE, KHADI AND VILLAGE INDUSTRIE COMMISSION HIMALAYAN FARM BARELI ROAD HALDWANI-263139, NAINITAL(UTTARAKHAND)



PHOTOMONTAGE



PERMISSION

SWAMI SHRADD	T OF ZOOLOGY HANAND COLLEGE TY OF DELHI) DELHI-36	© : 27202278 : 27207533 FAX : 27205533
Ref. No		Dated!5:.3:.18
To, The Principal Incharge, Khadi & Village Industries Commission, BEE-Keeping Training Center, Haldwani District Nanital Uttrakhand Subject :- Information letter.	SWAMI SHRADDHANAND COLLEGE (DATE 1919) CLATE 1919 10 CLATYNS 195 GIGNATURE	
Dear Sir,		
As per our telephonic conversation, 1 w allowed the tour of Apiculture in your institution. We have reaching their on 24-09-2018 and enclosing the list of lab staff and students.	in.	
(Dr. Smita) (Dr. Pushpa) (Mr. Preetam)	yd 19.9.2018	

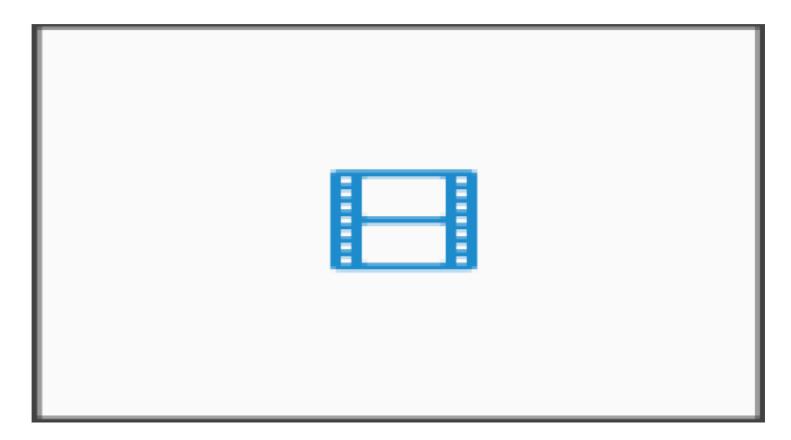
OBJECTIVES OF BEE KEEPING

The main advantages of beekeeping are:

- 1. Provides honey, which is the most valuable nutritional food.
- 2. Provides bee wax which is used in many industries, including cosmetics industries, polishing industries, pharmaceutical industries, etc.
- 3. Plays an excellent role in pollination. Honey bees are the best pollinating agents which help in increasing the yield of several crops.
- 4. According to the recent studies, the honey bee's venom contains a mixture of proteins which can potentially be used as a prophylactic to destroy HIV that causes AIDS in humans.



REEL ON APICULTURE











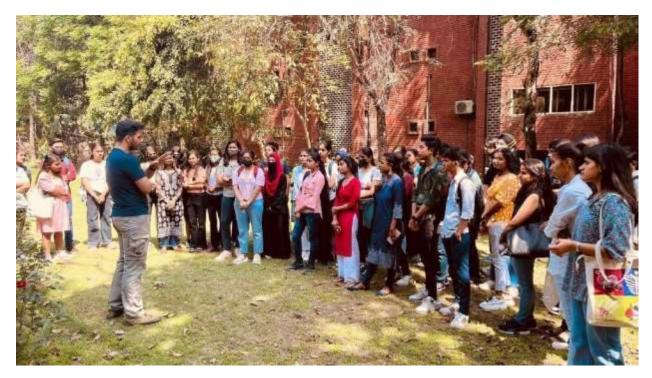




CONCLUSION

- 1. Apiculture is method or the practice of maintaining the bee hives for collecting honey.
- 2. Honey has high nutritional value and it is also abundantly used in preparing the medicines.
- 3. Apart from honey, bee wax is also produced by honeybee which is used in preparing cosmetics and also used in industries for various works
- 4. For making practice of bee keeping successful, one should have proper knowledge about the nature as well as habits of bees. Also, the beehives should be properly managed in accordance to different seasons.

Akanksha and Dr. Manmohan took the students of Life Science (prog.) IV Sem for an educational visit to Dept. of Geology (Museum of Fossils) as a part of their curriculum activity dated 27.03.2023.



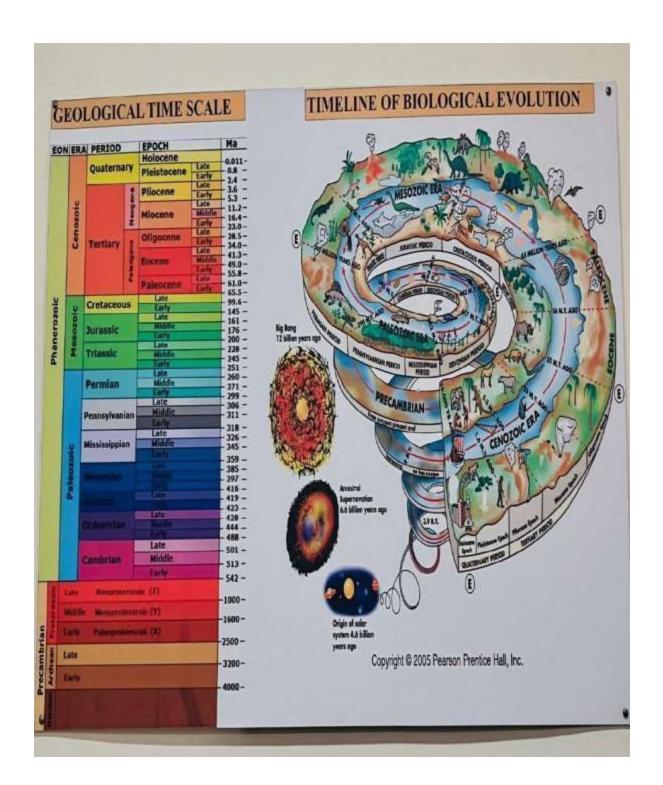
























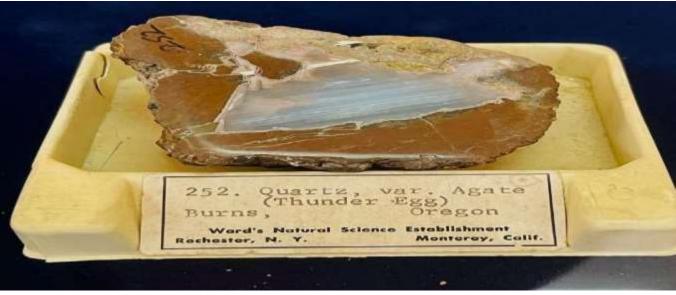






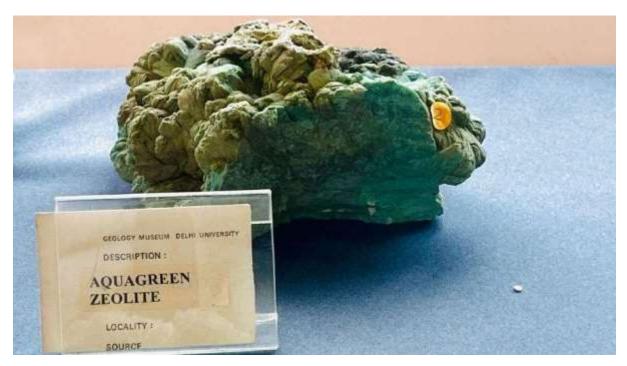








































Also during this time, the Earth's exist cooled enough that rocks and continuously place legislation of the Control of the Con



ARCHAEAN EON

mercrobal mat festale found in .4.8° hillion year-sid sandatone discovered in Western Australia. Peculi void care of Archaen III?

Widels secepted lines of evolutions of Archaen III?

Widels secepted lines of evolutions of Archaen III is an inset on (1) streamstellias, (10) motorolosis, (10) motorol

Rock Type	Geographic Location	Age in million years (Ma)
Obdest surviving (gaeous rocks	Assata Gastas Complex of Northwest Territories, Canada	4000 Ma
Oldest known aedimentary rocks (amphibulity factor metaerdments)	Irua Supracrustal Group of Southwestern Greenland	3800 Ma
Ancient thick sedimentary sequences, regionally metamorphosed to greenechist facina	Pilhara Cinton of Western Australia	-3500 - 3000 Ma
Ancient thick sedimentary sequences, regionally metamorphosed to greeneshist facies	South Africa and Swaziland	-3500 - 3000 Ma























A Visit to IVF Centre



12JULY' 22, TUESDAY



33 STDUENTS OF LIFE SCIENCE DEPARTMENT & 4 TEACHERS OF ZOOLOGY DEPARTMENT ,SWAMI SHRADDHANAND COLLEGE



AVEYA IVF CENTRE, RAJOURI GARDEN, NEW DELHI-110027

INTRODUCTION

The Life Science department of Swami Shradhhanand College under Dr.Gauri Mishra organized a visit to Aveya IVF Rajouri Garden for its semester 2 students on the 12th of July. The visit aimed to provide students with practical exposure to the IVF process, its history, and its importance in the field of reproductive health.

Accompanied by four teachers from the Zoology department, the students were welcomed by the clinical team, comprising of Dr. Nisha Bhatnagar and Dr. Payal Bajaj, and the research head, Mr. Harshith Saliyan.

ABOUT

During the visit, Dr. Nisha took the students through the history of IVF, its increasing rates in India, and its probable solutions like ICSI, IUI, and IVF.

Mr. Saliyan highlighted the factors responsible for the increasing rates of infertility in India. These include environmental factors such as pollution, unhealthy lifestyle habits such as smoking, and changing socio-economic factors such as increased stress levels. He advised the students to adopt a healthy lifestyle, avoid smoking and alcohol, and manage stress levels to maintain their fertility.

Dr.Nisha also discussed ICSI, a complex procedure used in cases of low sperm count or quality, or difficulty in the fertilization process. She explained the procedure in great detail and highlighted its benefits. The students were fascinated by the intricate details of the procedure and appreciated the technological advancements involved.

In addition to the informative session, the students were given a tour of the entire center, where they had the opportunity to view all the labs and wards. They were able to witness firsthand the advanced technological procedures and equipment that the IVF center employs. The students were also provided with refreshments, which added to their overall experience.

CONCLUSION

The visit to Aveya IVF Rajouri Garden was an exceptional learning opportunity for the students of the Life Science department. They were able to witness the process of IVF firsthand and learn about the various techniques and procedures that the center employs. The visit left the students with a newfound appreciation for the importance of reproductive health, and they left the center with valuable advice where they told the students on how to maintain their fertility in the long run.

VISIT SNAPSHOT







Feedback

The visit to Aveya IVF centre was a great learning experience. We got to see the various procedures like ICSI, IUI and IVF in action and understand the science behind it. It was a valuable addition to our curriculum and helped us gain practical knowledge on the topic.

MUSKAN



44



I am grateful for the opportunity to visit Aveya IVF centre as a part of our curriculum. It was an enriching experience that not only taught us about the different procedures but also highlighted the increasing infertility issues. I would like to thank our zoology teacher Dr Gauri Mishra for organising this visit.

MADHAV

The visit to Aveya IVF centre was an eye- opener me. The staff were knowledgeable answered all our questions with patience. We got to see the latest technology used in the field of medicine reproductive and learn about the advancements being made. lt was а great experience overall.

PRAKRITI



66



I appreciate the effort taken by our college to organise a visit to Aveya IVF centre. It was an educational and interesting experience that allowed us to see firsthand the procedures that we learnt in theory. The staff were helpful in answering our doubts and queries.

SARTHAK

-	12/07/20 151 Bake	12/7/2021	(Aveya IVF Cent Dr. Nisha Bhatrage
AF	12 PM	HOD >	> Dr. Wigha Bhatrage
is Ho.	Hame.	Contact No.	Signature
_(1)	Pari Sharma	7417734083	gharma.
(2)	Vanshika Shauma	18891 35032	yanships
(3)	MADHAY- DAWAR	9717479924	Madhandan
(4)	MEGHA BISHT	7428862946	Meghs
(5)	ARVAN PRAKASH	9773734222	Augan Prekarh.
(6)	DARPAN VATS	9711853659	Danzin
(7)	VISHAL SINGH	9351322728	Verhal
(8)	SAHYOG	9205955942	A Taylog
(9)	NIDHI	9910919208	Didhi
(10)	Priya	962 563 8094	Boj 9 0 -
11)	Poarmaja	9873189108	Posmajo
12)	Shivani	8810567681	Sherane.
13/	And	7982604510	Jons
<u></u>	Aakeiti	98211 93265	Asigh
15	Lakshita	8397819450	Lakshita
16	Annu	9555015193	Annu
_ 17	Khushi:	9045449019	Keuli.
19	Sakohi"	95182 37116	Saphi
19.	Prechi	8467027723	Preebi
20	Ajali Vashishta	9417778230	96

"

	13		
	Mome	conjuir 100.	1 sign
	Tamanua Barusal	8882036099	Law
Sa.	Sarthuk Kanshik	9205171460	Surthale
₹3.	Aakanksha Yadav	89 5806 5987	Al Man Sisho.
24:	Anushica Sumrani	9968511944	Au
25.	AKSH. KUMAR	8700489938	Asherman .
26.	Hawkits sharma	au48\$ /1785	Harrier
23	Kajal kumari	869636741	Kajel.
28.	Himanshi	8506851085	Himanshi
29.	Sonal Kumawi	9205330897	Sand
30.	Divya	8851087152	DIXTED -
31.	Tannu	6006940962	Elm
B2.	Saumya Sharma	935 9667408090	Saumyer
33.	Prakriti	7607876296	Raterin.
34.			
35.			
			8 (8)
		5"	. *

Department of Zoology

Swami Shraddhanand College(University of Delhi), Alipur, Delhi-36

This is certify that the following students of B.Sc.(H) Zoology had submitted the project report in Semester VI on "Culture of *Drosophila* in Laboratory" as a part of the paper DSC-Developmental Biology in the academic session 2022-23

College Roll No.	Name	Signature
20/5001	Kartika	Kortika
20/5003	Simran Kumari	Simeordingh
20/5004	Nishad Parvin Khan	
20/5006	Riya Singh	Rigo
20/5007	Shubhra	
20/5008	Bhavya Priya	Bhavya,
20/5009	Merin C Joy	Meni.
20/5011	Kapil Sharma	- O.V
20/5014	Diksha Chauhan	_
20/5016	Chintu	Chinty
20/5019	Sumit Kumar Jha	sumft_
20/5020	Rahat Thakur	Res
20/5021	Vivekanand Gaur	Vinelaron
20/5023	Kashish Gupta	Kashish.
20/5024	Km Neeloo	km. Neebo "
20/5026	Neha Tomar	Nelia
20/5027	Gavya Sharma	(400 ·
20/5028	Aman Rai	Aman Rui
20/5030	Aimen Iqbal	Airren'
20/5031	Shashank Barnwal	Shashauk
20/5032	Yashika Mehra	4me Com
20/5034	Priyanka Yadav	Puntona Yaday
20/5038	Anita Shekhawat	aun.
20/5039	Bikash Mahto	Billook
20/5041	Megha	Megus



Department of Zoology

Swami Shraddhanand College (University of Delhi), Alipur, Delhi-36

This is certify that the following students of B.Sc.(P) Life Science had submitted the project report in Semester VI on respective titles as a part of the paper SEC- Physical Health and Hygiene in the academic session 2022-23

College Roll No.	Name	Report Titles	Signature
20/3602	Himanshu	Tuberculosis	himonthy
20/3605	Gayatri Devi	Diabetes mellitus	Gostation
20/3607	Urvashi Goyal	Hypertension	usure-e
20/3608	Tanisha Chauhan	Coronary heart disease	lanishta
20/3610	Bipin	Tuberculosis	Dipin
20/3613	Prachi	Diabetes mellitus	Pochly
20/3614	Anshu	Hypertension	Anto
20/3615	Gautam Kumar	Coronary heart disease	-eus-
20/3616	Keshav Narayan	Tuberculosis	No second
20/3619	Fahima Usmani	Diabetes mellitus	Rumon
20/3629	Anushka Srivastava	Hypertension	aulle.
20/3634	Harshdeep Singh	Coronary heart disease	Hashelp Sight
20/3635	Parul	Tuberculosis	doit.
20/3636	Nikhil Pratap Singh	Diabetes mellitus	03/20
20/3638	Deepanshu Chauhan	Hypertension	of the same
20/3644	Haider Ali	Coronary heart disease	Bea.
20/3645	Raksha Pandey	Tuberculosis	Raksha Pandey.
20/3650	Harsh	Diabetes mellitus	Hales 0
20/3651	Rahul Kohli	Hypertension	Kahul Kehli
20/3652	Jatin Kumar	Coronary heart disease	Jalin Ki
20/3654	Indira V	Tuberculosis	Zelso
20/3660	Kashish Yadav	Diabetes mellitus	Karnish.
20/3662	Shivani	Hypertension	Arimi.
20/3663	Vaishali	Coronary heart disease	Jan Sb
20/3667	Kajal	Tuberculosis	Kujal
20/3669	Rajkiran Mehar	Diabetes mellitus	Rajerous
20/3671	Nirdesh Kumar	Hypertension	, Madout
20/3672	Snigdha Kapuria	Coronary heart disease	- Lugar
20/3674	Sakshi	Tuberculosis	Salestie
20/3676	Shrawan Kumar	Diabetes mellitus	Shyanoun Numas Sin
20/3677	Aayush Chauhan	Hypertension	Aciquish

20/3801	Riya Mishra	Diabetes mellitus	@fyaleath_
20/3802	Varsha	Hypertension	ask
20/3810	Poonam	Coronary heart disease	Poonaty
20/3820	Ankush Gautam	Tuberculosis	Ankush Gautan
20/3824	Gunjan	Diabetes mellitus	ejujan.
20/3833	Shubham Gupta	Hypertension	Sustanting
20/3835	Vishal Karghati	Coronary heart disease	angustul
20/3839	Kritika Yadav	Tuberculosis	Shirtlyes.
20/3840	Nisha Rani	Diabetes mellitus	who we
20/3844	Varsha	Hypertension	yaren
20/3846	Keshav	Coronary heart disease	greshou
20/3849	Kanishka	Tuberculosis	Yanishba
20/3851	Nitin	Diabetes mellitus	DIFF
20/3852	Tanisha Khobiyan	Hypertension	Buobiyas
20/3856	Aditya Mohan Jha	Coronary heart disease	Adition
20/3858	Anshita Bhowmick	Tuberculosis	AnshitaBnom
20/3859	Sameer Agnihotri	Diabetes mellitus	Stoment.
20/3860	Lakshita Malik	Hypertension	2 marie
20/3862	Afifa Ejaz	Coronary heart disease	Alla
20/3864	Ritika Rangarh	Tuberculosis	Pitika
20/3865	Yogita Gaur	Diabetes mellitus	grand
20/3866	Md Abdullah	Hypertension	Flot About 101
20/3868	Saurabh Meena	Coronary heart disease	Durch
20/3869	Milee Raj	Tuberculosiş	Crit
20/3874	Ritika Singh	Diabetes mellitus	Total .
20/3875	Suyesh	Hypertension	Suites
20/3877	Shivam Sharma	Coronary heart disease	Chiram

Department of Zoology

Swami Shraddhanand College (University of Delhi), Alipur, Delhi-36

This is certify that the following students of B.Sc.(H) Zoology had submitted the project report in Semester IV on "Disinfectants Used in Sericulture" as a part of the paper SEC-Sericulture in the academic session 2022-23

College Roll No.	Name	Signature
21/5001	Khusi Pandey	Range
21/5002	Harshita	flaustither.
21/5003	Ankita	flaustithen.
21/5004	Debangshi Dasgupta	Deborssi
21/5005	Telhat Zabi	Talhat Jabi
21/5006	Manthan Sharma	Manthen Sharma
21/5008	Akansha Yadav	Haday.
21/5009	Aanchal Aggarwal	Panahal
21/5011	Himani	flimani
21/5012	Iftikhar Alam	(2)
21/5014	Neha Zachariah	Olete.
21/5016	Amey Chauhan	Amer
21/5018	Gourav Yadav	Contain
21/5020	Niket Kumar	9-
21/5021	Bhoopendra Saini	Bhopendra
21/5022	Bitupon Lalung	Bitupon.
21/5024	Anshul Bharti	Anshul
21/5025	Dolly	20114
21/5027	Gaurav	ganfar
21/5028	Vanshika Kumari	Varshike Kumni
21/5029	Khushi Rani	
21/5030	Sumit Bharti	Khushi Rani White Aprima
21/5032	Garima Singh	a sima
21/5033	Anjali Kalondia	- Am
21/5034	Chitra	Chita
21/5035	Sakshi Nayan	CMIT
CTEACH COCHO 11704		Sutshir
21/5037	Ishika	Ishika.

EXCURSION TRIP TO PURANA QILA

PRESENTED BY : SWAMI SHRADDHANAND COLLEGE





Prof. Parveen GargPrincipal



Prof. Ranjan Kumar (Teacher in charge)



Dr. Lal Bahadur Swarnkar(Assistant Professor
Dept. of history)

Report on Excursion trip to Purana Qila

Date: 1ST March 2023



ATEET The History Association, Department of History of Swami Shraddhanand College had organized a one day excursion trip on 1st March 2023. This trip was organized and under the supervision of Mr. Ranjan Kumar (Teacher in charge) and Dr. Lal Bahadur Swarnkar (Assistant professor of Department of History). About 45 students from history hons. And programme course had participated in this trip. The students were accompanied by Dr. Badnath Awasthe and Dr Basant swarnkar (Deputy Superintending Archaeologist at Archaeological Survey of India, Delhi). Their presence provided a very different perspective and enabled the students to visualize the history on this ongoing excavation site visit. This started around 10 am in the morning where students reached the destination on there own at the given time. This trip covered the areas around Purana Qila visiting a no. of monuments and sites like Humanyun's private Library, qila-i-kuhna mosque and archaeological museum.

ABOUT THE SITES:

Purana qila is located at the Delhi Mathura Road, a well maintained sites with its peaceful gardens studded with well-preserved ancient red-stone monuments. It also includes the intricately patterned Qila-i-Kuhran Mosque i.e. Mosque of Sher Shah. Purana Qila has been reopened with ongoing excavation while the excavated remains are preserved, conserved, and provided with a shed. The site has been showcased as an Open Air Site Museum, allowing visitors to experience the rich historical legacy of Delhi. Currently this also served as a point of attraction for G-20 Summit delegates. According to Minister of Culture and Tourism and Development of Northeast Region, G Kishan Reddy this is the only site in Delhi-NCR where one can witness the continuous history of Delhi from the Pre-Mauryan to Mughal period through the excavated remains. The findings showcase the rich cultural heritage of our country.

This excavation site is also sometimes termed as 'from Indraprastha to Delhi'.







Purana Qila:

The Purana Qila was built by the Mughal Emperor Humayun as a part of his new city of Dinpanah in the 16th century. Humayun started building this in 1533 CE. By 1534 CE, the walls, bastions, ramparts and gates of the citadel were almost complete. It is difficult to estimate how much of the Purana Qila was complete when Sher Shah took over in 1540 CE. The Suri interregnum of 15 years, despite its brevity,

was significant in terms of the architectural development of the fort. Sher Shah renamed Din Panah as Sher Garh and built various important structures within it.

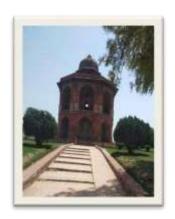
Oila-e-Kuhna:

A prominent structure of the Purana Qila is the Qila-e-Kuhna (Sher Shah mosque). The architectural features encountered here appear in more pronounced forms in the monuments built by Emperor Akbar later on. The Qila-e-Kuhna is a rectangular domed structure built in grey quartzite with profuse use of red and yellow sandstone. This mosque is an aesthetic structure that reflects a transitional stage between the architecture of the Lodhis and the Mughals. Its architecture is very much similar to the architecture of Jamali Kamali mosque. The façade of the structure contains five arches. It is beautifully decorated by the bands of calligraphy of verses from the Quran inscribed on it. The *Mihrabs* and the ceilings of the Qila-e-Kuhna are also worthy of attention. Here we see squinches that are exquisitely carved.



Sher Mandal:

After Humayun recaptured the throne, he is said to have converted this building into a library. The Sher Mandal is a compact octagonal structure built in red sandstone and sparingly decorated with white and black marble inlay. Emperor Humayun had a fatal fall on the steps of this very structure. It is said that Humayun, after he heard the call for prayer from the mosque, hurried down the steps of his library, got caught in the flares of his long robe, and fell.





Excavation site:

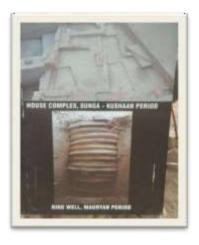
A strong local tradition believes that the area in which the Purana Qila stands today is the site of Indraprastha, the capital of the Pandavas of the great epic Mahabharata. Historians have sought the help of archaeology to verify this claim. Excavations at this site in 1954-55 and 1969 -1973, conducted by the Archaeological Survey of India and headed by BB Lal, revealed a few shards of pottery

belonging to the Painted Grey Ware (PGW) variety, that historians trace to the Mahabharata period (1500-1000 BCE). They also revealed the existence of stratified layers belonging to 8 periods starting from the 4th century CE and continuing right up to the 19th century, confirming that the site had a long and unbroken chain of habitation for centuries.





GALLERY:



















Feedbacks

Our purana qila excursion was too wonderful and knowledgeable... I saw live excavation first time in life and which is unforgettable. I'm very grateful to our college history department and our teachers for this wonderful trip. we've learnt a lot of things during this excursion which is going to be memorable...

It was nice trip and we are thankful for our history department and also want to travel new place for more information and learning something new

It was a great experience on that trip and we learned many historical things and i hope, in future we visit such places again.

It was a great trip .. well organised by
Ateet. Got to learn a lot about history
from a different insight. I got to know and
understand a lot more about history than we
usually read in books. It also changed my
perspective of reading and understanding
history as well.

We went on our second excursion trip it was a great opportunity for us to know and enhance our knowledge it was great experience to know how it happens it was a really great experience for us it's the first time to see how our ASI works and search our historical antiques etc and we get the lecture from archaeology teacher

Our last trip was good and memorable where we got to learn and have fun with our friends, I am very thankful to my history department which gave us an opportunity to see and learn physically historical things along with studying theory.

The excursion was really awesome, especially because of my fellow mates. I enjoyed it a lot; the garden was truly beautiful. I learned a great deal about Mughal architecture and medieval Indian history, particularly during the Mughal era. We had loads of fun during the journey. I am eagerly anticipating more trips and excursions from our history department because these excursions help students grasp the relevance of what we're studying and why. It enhances the significance of the subject.

THANK YOU

NATIONAL ZOOLOGICAL PARK VISIT Zoology Department (2022-2023)



- ➤ The Department of Zoology organized a visit to National Zoological park, on 4th February, 2023 for the students of first year ,as per the practical syllabus (S.No. 7) of the paper, Nature and Wildlife Studies, Paper Code: 2234001002.
- > The students were accompanied by Dr Pranav Singh who briefed the students about the purpose and importance of the visit.
- ➤ It provided the students an opportunity to freely explore the wildlife and understand their distribution, migration pattern and habitat.
- ➤ The students also learnt the different prospects of ex-situ conservation of wildlife. After the successful visit all the students submitted the visit reports.

Permission letter:

The Principal SSAI College University of sollie Alipur - 110086 New Delhi

Subject: application for requesting permission to visit National Zoological Park

Respected Six.

With due respect I would like to inform you that I (Dr. Pranau Singh, Guest faculty, Zoology) am teaching the class of Generic Elective: Nature and wildlife studies (12+ Sem. Hons.) in the current session. As per their syllabus a seport based on the field trip of any wildlife conservation site is mentioned in the curriculum. So, I ankindly requesting you to give feamission to visit the National Zoological Park. Delhi on February 4th 2023.

with tanker only

Recommended for nee action JIE , Zoolosy Deply . Thanking you Sincerely-Frances Dingle Dr. Branau Singh Gruest Faculty Zoology

ENCL: List of students enclosed.

Students Attendance:

Name Course G Devesh Rao BA (Hons) Geography Dinyanshu BSC. (Hons) Botarry. Riga Joshi BSC Physical Science with chamistay Hanry Rathore BSC (H) Botany Kashish BA. CHONS History Shamna Fidha p.p BSC (H) botany BSC (M Micorobiology Horshit Mishad Dupanshi Bisc Botany (Hons.). Navcen Rom B. A. Hous (history).



National Zoological Park

New Delhi

















