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 1^{sT} 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

 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 Shradhhanand 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.





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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





SMA Director ISKCON Dwarka, Delhi 17940)

Vice President ISCKON Dwarka, Delhi

63377

D S Kothari Centre for Research and Innovation in Science Education Miranda House, University of Delhi ED/ SUMMER INTERNSHIP PROGRAM 2023 **Flavor of Research** Investigative Projects in Multidisciplinary Contexts 06 June to 18 July 2023 This is to certify that Debangshi Dasgupta Swani Shoraddhanand Callege carried out a project on In silico characterization of stress genes and proteins at the summer internship program by DS Kothari Centre for Research and Innovation in Science Education, Miranda House, University of Delhi. lon Homes Toman Professor Bijayalaxmi Nanda Professor Monika Tomar Principal Miranda House Coordinator DSKC, Miderida Hou CERTIFICATE MBA нив 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 indukund finance and stock market fundamentals. Animesh Kumar (Founder) 6 MHA

Reference ID : KT0357100W9A7857

Issued By : MBA HUB







DATE 30" Marsh 2022

TO WHOM IT MAY CONCERN.

This is to certify that Divitrisman Sharali, on 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, IIT Kanpor 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 internatio.

So hereby with this letter, we acknowledge that the student has done the internship on the topic of "Antibiotic resistance" in MEDICAL MICROBIOLOGY & MMUNOLOGY as a part of the internship and the project has exhibited the student's ability and skill in adapting the training structure into its practical rations and focusing on the one elements of the training. The Project was satisfactory and had catered to all the key briefs handed to the student as an outline for the project.

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

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

Shower Christia Baserona Yanati Ethical Edudeterus Per, 116

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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.













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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

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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.

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List of Students

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PAGE NO. _ DATE 2/08/17 Experiment no. - 1 (6) Aim -To visit any industry to see an industrial fermenter f other downstream processing operations Theory -According to wHO, " Probiotics are live microorganisme which when administered in adequate an a health benefit on the host." probiotics are effective in maintaining good health by suppressing the growth of bad bacteria restoring the balance of gut flora. Introduction / In 1930, pr. Minora Shirota discovered partobacillus case strain Shirola which was seneficial to human health. The bacteria is resistant to gastric juice and bile, which could reach intestine impost a health benefit. He und it to make Yakult, a firmented milk / drink which contains more than 6.5 billion beneficial Yaku bacter ccientifically proven probiotic drink consumption of Yakult helps improve intestinal function of build immunity

9. The finished Yakult is corted in a pack bottles that is shrink wrapped in polypropyles and loaded into a crate. Ne crates containing Yakult are transferted to the cold room conveyer belt. 10. In the cold room, the finished products refrigerated at 5°C to ensure their best condition before distribution. Quality control Measures carried out at Production Unit :-. More than 100 chicks are carried out to ensure that the final product tastes night and epice care is taken to esfeguard viability of Yakult bacteria · workers wear protective clothes . workers sanitize their hands and pass through air chower before entering the production area · Battling and filling area is controlled with . Frequent testing at on-site quality control division

PAGE NO ._ DATE tank, the sterilized sugar symp is added to culture base to form come. Yakult and the chilled at 5°C. The corre. Yakult is transferred to the mixing tank and diluted with sterilized water. Natural Havous and permitted colouring are added at this for flavoured Yakult and the diluted mixture in to filling Tank their transferred The plastic bottles are produced by the mould machine at the speed of 7000 bottles per hour. These bottles (polyitynew) are transported by clean air blower through a duct to the storage From the storage tank, the empty bottles transferred to selector machine which arranges upright position before w gin they the printing machine to machine printe Yakult logo, the The beinting ingredients etc. used on the empty battles stant dry sed ink From the Printing Machine, the printed bottles are sent to filling Machine which has the capacity to fill 30,000 bottles with Yakult per hour. this stage, the bottles seale are capped and has " Use with an Aluminum foil that date" print.



Jable showing Nutritional Information per 65 ml of Yakult Mutritional Information per 65 ml 1. Energy 2. Protein 50 Kcal 0.89 3. Carloolydrates 4. Fate 129 <0.1g



PAGE NO. DATE production of Yakult -Yakult's first state of art publictic located at Rai, sonepat, Haryana. follows the most engineeric and advance manufacturing process ensuring the apreme products day after day It ma skimme glucose flavour, water Lactobacillus shireta (hes). It is free from puservatives colouring and stabilizers It is a step by step process where 1. Skimmed milk powder is disclud in hot water (50'-55'c) in dissolving tank to make milky solution. From the discolving tank, the milky solution transferred to within tank and sterilized. then cooled to 37°C. The culture starter t. casei strain suirota from the seed tank added into tank to firment the solution until has concentration reaches ideal changes into and form known as culture , and solution The culture base is passed through base: homogenizer to make it into fine texture is transferred to storage tank. In the

PAGE NO .__ DATE ensures the feeduct is highest standard uptil the date of expiry monitored for 24 · Every batch of Yakult is for hre before it is dispatched puoduced for sale The Indian Peant has 150 9001: 2008, MACCP, OHSAS accreditation for manufacturing a safe quality product for its customers Visit we visited the Yakult probiotic Industry at Rais Haryana to see its operations. we were debriefed about the product and its history, its benefits etc followed by a visit to see its production un explained in detail by experts scientiets there. Finally, we also get to taste the fresh prepared cample from the unit overall it very well organised, interesting of informative conducted by our department with the help vise Yakult broblotic Industry Rente 25

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EXCURSION TRIP TO MEHRAULI ARCHAEOLOGICAL PARK AND QUTUB COMPLEX

PRESENTED BY :

SWAMI SHRADDHANAND COLLEGE





Prof. Parveen Garg Principal



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 1st 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 qutb

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.



QULI KHAN 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.

<u>**RAJON KI BAOLI</u>** 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.</u>





JAMALI KAMALI 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.

Gallery

Thank you





LIST OF STUDENTS :

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26.Abhishek bharti	1676	57. Ankit thapa	1642	
27.Naman	1679	58. Kartik pal	1623	
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29.Mustafa	1654	60. Raj patel	1651	
30.Aman raj	1663	61. Kartikey singh	1645	
31. Himanshu	1616	62. Akshat	1655	
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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

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 satifying.

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.

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

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

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

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

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

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

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 SHRADI	NT OF ZOOLOGY DHANAND COLLEGE NTY OF DELHI , DELHI-36	© 127202276 127207533 FAX : 27205533
Ref. No		Dated
To, The Principal Incharge, Khadi & Village Industries Commission, BEE-Keeping Training Center, Haldwani District Nanital Uttrakhand Subject :- Information letter.	SWAMI SHRADDHAMAND COLLEGE UNIVERSITY OF DELNO DATE 1919100 10 DURY No. 195 BIOMATURE	
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As per our telephonic conversation, 1 allowed the tour of Apiculture in your institut	would like to inform you that ou lon.	ir principal
We have reaching their on 24-09-2018 enclosing the list of lab staff and students.	Talong with our students and iv	ve are also
Smills	at	
(Dr. Smita) (Dr. Pushpa)	yd 18.9.2018	
(Mr. Preetam)		

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







8 71



⁹ 71

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.




































































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A Visit to IVF Centre



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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



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





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Feedback

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 for me. The staff were knowledgeable and 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. It was а great experience overall.

PRAKRITI





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

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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	Kartika
20/5003	Simran Kumari	Simeandinghy
20/5004	Nishad Parvin Khan	-
20/5006	Riya Singh	Rija
20/5007	Shubhra	
20/5008	Bhavya Priya	Bhayya.
20/5009	Merin C Joy	Merri
20/5011	Kapil Sharma	-
20/5014	Diksha Chauhan	
20/5016	Chintu	Chinty
20/5019	Sumit Kumar Jha	Sumft
20/5020	Rahat Thakur	Res
20/5021	Vivekanand Gaur	Vinekanono
20/5023	Kashish Gupta	Kashesiv.
20/5024	Km Neeloo	ken. Neerbo "
20/5026	Neha Tomar	New
20/5027	Gavya Sharma	And .
20/5028	Aman Rai	Aman Rai
20/5030	Aimen Iqbal	Ainen
20/5031	Shashank Barnwal	Shashauk
20/5032	Yashika Mehra	Hme lan
20/5034	Priyanka Yadav	Puntona yaday
20/5038	Anita Shekhawat	andn.
20/5039	Bikash Mahto	Billach
20/5041	Megha	megus

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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	himongha
20/3605	Gayatri Devi	Diabetes mellitus	Gazathi
20/3607	Urvashi Goyal	Hypertension	sortines
20/3608	Tanisha Chauhan	Coronary heart disease	lanishta
20/3610	Bipin	Tuberculosis	Quin
20/3613	Prachi	Diabetes mellitus	Pochy
20/3614	Anshu	Hypertension	Anoto
20/3615	Gautam Kumar	Coronary heart disease	-and-
20/3616	Keshav Narayan	Tuberculosis	Harrist
20/3619	Fahima Usmani	Diabetes mellitus	Querre
20/3629	Anushka Srivastava	Hypertension	converte .
20/3634	Harshdeep Singh	Coronary heart disease	Hasherp sight
20/3635	Parul	Tuberculosis	dat
20/3636	Nikhil Pratap Singh	Diabetes mellitus	astar.
20/3638	Deepanshu Chauhan	Hypertension	- Age
20/3644	Haider Ali	Coronary heart disease	Here.
20/3645	Raksha Pandey	Tuberculosis	Raking Pauders
20/3650	Harsh	Diabetes mellitus	Hares 0
20/3651	Rahul Kohli	Hypertension	Tahitahli
20/3652	Jatin Kumar	Coronary heart disease	Jatin Ki
20/3654	Indira V	Tuberculosis	Relenz
20/3660	Kashish Yadav	Diabetes mellitus	Karnish.
20/3662	Shivani	Hypertension	Shimi.
20/3663	Vaishali	Coronary heart disease	Anth
20/3667	Kajal	Tuberculosis	Kujal
20/3669	Rajkiran Mehar	Diabetes mellitus	Raileroous
20/3671	Nirdesh Kumar	Hypertension	Nadery
20/3672	Snigdha Kapuria	Coronary heart disease	- Shigh
20/3674	Sakshi	Tuberculosis	Saleshi
20/3676	Shrawan Kumar	Diabetes mellitus	Shyawan Kuma
20/3677	Aayush Chauhan	Hypertension	Aciquist

20/3801	Riya Mishra	Diabetes mellitus	Chaluit
20/3802	and the second se		AU
	Varsha	Hypertension	Vaste
20/3810	Poonam	Coronary heart disease	Poonaty
20/3820	Ankush Gautam	Tuberculosis	Ankush Grautan.
20/3824	Gunjan	Diabetes mellitus	ejujan.
20/3833	Shubham Gupta	Hypertension	Sustanburgh
20/3835	Vishal Karghati	Coronary heart disease	Quershit
20/3839	Kritika Yadav	Tuberculosis	Shuittivel.
20/3840	Nisha Rani	Diabetes mellitus	Nieger .
20/3844	Varsha	Hypertension	Variety-
20/3846	Keshav	Coronary heart disease	grusher
20/3849	Kanishka	Tuberculosis	Kanushite
20/3851	Nitin	Diabetes mellitus	Nith
20/3852	Tanisha Khobiyan	Hypertension	thotingas_
20/3856	Aditya Mohan Jha	Coronary heart disease	Aditia
20/3858	Anshita Bhowmick	Tuberculosis	AnshitaBhomie
20/3859	Sameer Agnihotri	Diabetes mellitus	Stomer.
20/3860	Lakshita Malik	Hypertension	Drialie
20/3862	Afifa Ejaz	Coronary heart disease	Alifa
20/3864	Ritika Rangarh	Tuberculosis	Citika
20/3865	Yogita Gaur	Diabetes mellitus	Maria
20/3866	Md Abdullah	Hypertension	rid. Abdullah
20/3868	Saurabh Meena	Coronary heart disease	Dunah
20/3869	Milee Raj	Tuberculosiş	ONE
20/3874	Ritika Singh	Diabetes mellitus	Ketter .
20/3875	Suyesh	Hypertension	Suitesh
20/3877	Shivam Sharma	Coronary heart disease	Chirom

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

Khusi Pandey Harshita Ankita Debangshi Dasgupta Telhat Zabi Manthan Sharma	Andre Haustinghovi. Andela Beborsni Talhat Jabi
Ankita Debangshi Dasgupta Telhat Zabi	Antelta Antelta Beborssi
Debangshi Dasgupta Telhat Zabi	Antelia Beborgsui
Telhat Zabi	Beborssi
	I at Tabi
Manthan Sharma	Talhar
	N. TI Maria
Akansha Yaday	Vadar Vialina
Aanchal Aggarwal	Hader V.
Himani	Kimani
Iftikhar Alam	(),
Neha Zachariah	ality.
Amey Chauhan	Amet
Gourav Yadav	Courais
Niket Kumar	- 4-
Bhoopendra Saini	Rhoogendry.
Bitupon Lalung	Bhuppendra Bitupon.
Anshul Bharti	Anshel
Dolly	Dolly
Gaurav	gaufar
Vanshika Kumari	Varshike Kumpi
Khushi Rani	Khushi Rani
Sumit Bharti	Khushi Rani Ulumit Aperima
Garima Singh	having
Anjali Kalondia	7
Chitra	Chiltre
Sakshi Nayan	Chill
	Chitra Sutstur Johnita
	Akansha YadavAanchal AggarwalHimaniIftikhar AlamNeha ZachariahAmey ChauhanGourav YadavNiket KumarBhoopendra SainiBitupon LalungAnshul BhartiDollyGauravVanshika KumariKhushi RaniSumit BhartiGarima SinghAnjali Kalondia

EXCURSION TRIP TO PURANA QILA

PRESENTED BY : SWAMI SHRADDHANAND COLLEGE





Prof. Parveen Garg Principal



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, gila-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.

Qila-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:



















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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... 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

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. 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 Brincipal SSAI College University of Dalhi Alipur - 110036 New Delhi

Subject: application for requesting permission to

Respected Sin,

With due respect I would like to inform you that I (In Pranav Singh, Guest Jaculty, Zoology) an teaching the class of Generic Elective: Nature and wildlife studies (12+ Sem. Hons.) in the current serion As per their syllabus a report based on the field trip of any wildlife conservation site is mentioned in the curriculum. So, Iankindly requesting you to give permission to visit the National Zoological Park. Delhi on February 4th 2023.

Recommended for nee action with tember owly -JIE, Zoofesy Deply. Thanking you Sincerely Pranas Dingh Dr. Branau Singh Gruest Faculty Zoology ENCL. List of students-enclosed.

Students Attendance:

Name

G Devesh Rao Divyanshu Riya Joshi Nany Rathore Kashish Shamna Fidha p.p Horshif Mishaa Dupanshi Naveen Rom Course

BA (Hons) Geography BSC. (Hons) Botany. BSC Physical Science with chamistay BSC (H) Botany BA. CHONSJ History BSC (H) botany BSC (M Micorobiology Bisc Botany (Hons.). B. A. Hons (history).



















