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

SHIVAJI COLLEGE
(UNIVERSITY OF DELHI)

DETAILS OF THE EVENT

TITLE OF THE EVENT:	Visit to IVF CENTRE, Rajouri Garden, New Delhi
DATE AND TIME:	9th/April/2024 at 10AM
NATURE:	OFFLINE √
VENUE:	AVEYA IVF CENTRE, Rajouri Garden, New Delhi
DEPARTMENT/COMMITTEE/SOCIETY:	Zoology
TIC/CONVENER NAME:	Dr. Deepika Yadav, Dr. Tsewang Namgial
NUMBER OF PARTICIPANT:	18
FINANCIAL ASSISTANCE (IF ANY):	
(i) Amount:	-
(ii) Funding agency details:	NA

BRIEF WRITEUP ABOUT THE INVITED SPEAKER(S)

NAME & DESIGNATION	AFFILIATION	PHOTO
NA	NA	NA

LEARNING OBJECTIVES:	A visit to **IVF center** is enlisted in the syllabus of **cell and Developmental Biology, Life Science, semester II practical.** During the visit, students engaged in various activities and observed firsthand the of the IVF clinic:
OUTCOME:	Technological advancements: Students gained insights into the cutting-edge technologies and innovations driving advancements in assisted reproductive techniques, including time-lapse imaging systems for embryo monitoring and genetic screening techniques. Ethical considerations: The visit sparked discussions among students regarding the ethical dilemmas surrounding IVF, including issues related to embryo selection, genetic manipulation, and the commodification of human reproduction.

- BRIEF REPORT OF THE EVENT:

THE REPORT MUST INCLUDE THE FOLLOWING DOCUMENTS AND PROOF IN THE GIVEN ORDER:

1.	**Permission letter (Duly signed):** √
2.	**Poster/invites** : NA
3.	**Photos(geotagged):** √
4.	**Link of video clip (If any):**
5.	**Attendance sheet:** √
6.	**Feedback form and analysis: NA**
7.	**MoU/ Collaboration Proof (If any):** NA
8.	**Media coverage: None**
9.	**Event completion report (Duly signed):** √
10.	**Financial assistance/sponsorship proof(If any): NA**
11.	**A scan of blank certificate, if given to participants / winners: NA**
12.	**Any other document : NA**

(For Office use only)

IQAC Document No:	IQAC/SH/2023-2024/ Society/Dept./Committee /
IQAC file No:	SH/2023-24/

TICK MARK (√): The relevant NAAC criteria pertaining to the event.

Criterion I	Curricular Aspects (planning & Implementation)		Criterion V	Student Support & Progression
Criterion II	Teaching Learning & Evaluation ✓		Criterion VI	Governance
Criterion III	Research, Innovations & Extension		Criterion VII	Institutional Values & Best Practices
Criterion IV	Learning Resources and Infrastructure			

Deepika Yadav

TIC
(NAME & SIGNATURE)

12/11/24.

IQAC COORDINATOR
(SIGNATURE)

P/1832/24
04/04/24

04/04/2024

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

5/4/24

5/4/24

5/4/24

Subject: Permission for Life Science students (IV Semester) visit to In Vitro Fertilization (IVF) Center (Aveya IVF center)

Respected sir,

I am writing to request your approval for a student visit to an In Vitro Fertilization (IVF) center (Aveya IVF center, B-8, Vishal Enclave, Rajouri Garden, New Delhi-110027. This visit is intended to provide our students with an educational opportunity to understand the processes and technologies involved in assisted reproductive techniques.

The visit is planned to take place on 9th of April 2024 (timing 9:30am to 11:30 in two batches) and will include a guided tour of the IVF facility, informative sessions on fertility treatments. This experience aims to broaden our students' knowledge of reproductive health and the advancements in modern medical science.

Dr. Samya Das and Dr. Tsewang Namgial from Zoology Department will assist the student during visit. No-financial aid for the same is required. Before visit consent letter form the parents will be collect.

Thank you for considering our request. We look forward to your positive response.

Sincerely,

Deepika Yadav

Dr. Deepika Yadav
Associate Professor
TIC, Life-Science

Report on Student Visit to IVF (In Vitro Fertilization)

Introduction:

On 9th/April/2024, students from Life Science, semester II, Batch-B3, Shivaji college, University of Delhi had the opportunity to visit an IVF (In Vitro Fertilization) centre, AVEYA IVF CENTRE, Rajouri Garden, as part of their educational experience. This report provides a comprehensive overview of the visit, highlighting the key observations, learnings, and insights gained during the excursion.

Overview of the IVF Centre: AVEYA IVF CENTRE is a renowned facility specializing in reproductive medicine and assisted reproductive technologies. The clinic boasts state-of-the-art infrastructure, experienced fertility specialists, and a dedicated team of professionals committed to helping couples achieve their dream of parenthood through assisted reproductive techniques.

Activities and Observations:

During the visit, students engaged in various activities and observed firsthand the following aspects of the IVF clinic:

Laboratory tour: Students were given access to the IVF laboratory, where they witnessed the handling of gametes, embryo development under controlled conditions, and techniques such as intracytoplasmic sperm injection (ICSI) and embryo biopsy.

Equipment demonstration: The clinic staff demonstrated the use of advanced equipment such as incubators, microscopes, and cryopreservation devices used in various stages of the IVF process.

Learnings and Insights:

Technological advancements: Students gained insights into the cutting-edge technologies and innovations driving advancements in assisted reproductive techniques, including time-lapse imaging systems for embryo monitoring and genetic screening techniques.

Ethical considerations: The visit sparked discussions among students regarding the ethical dilemmas surrounding IVF, including issues related to embryo selection, genetic manipulation, and the commodification of human reproduction.

Conclusion:

The visit to AVEYA IVF CENTRE, Rajouri Garden proved to be an enriching and enlightening experience for the students, offering them valuable insights into the world of assisted reproduction, technological innovations, and ethical considerations surrounding IVF. The first hand exposure to the IVF process and interactions with fertility specialists and patients fostered a deeper appreciation for the complexities and challenges associated with infertility treatments.

Acknowledgments:

We extend our gratitude to the staff and management of AVEYA IVF CENTRE, Rajouri Garden for their hospitality and for facilitating an informative and engaging visit for our students. We specially would like to thanks college principal for his permission for visit to AVEYA IVF CENTRE, Rajouri Garden

Visited by Dr. Tsewang Namgial,
Department of Zoology,
Shivaji College,
Delhi University

Visit Report

9½/10

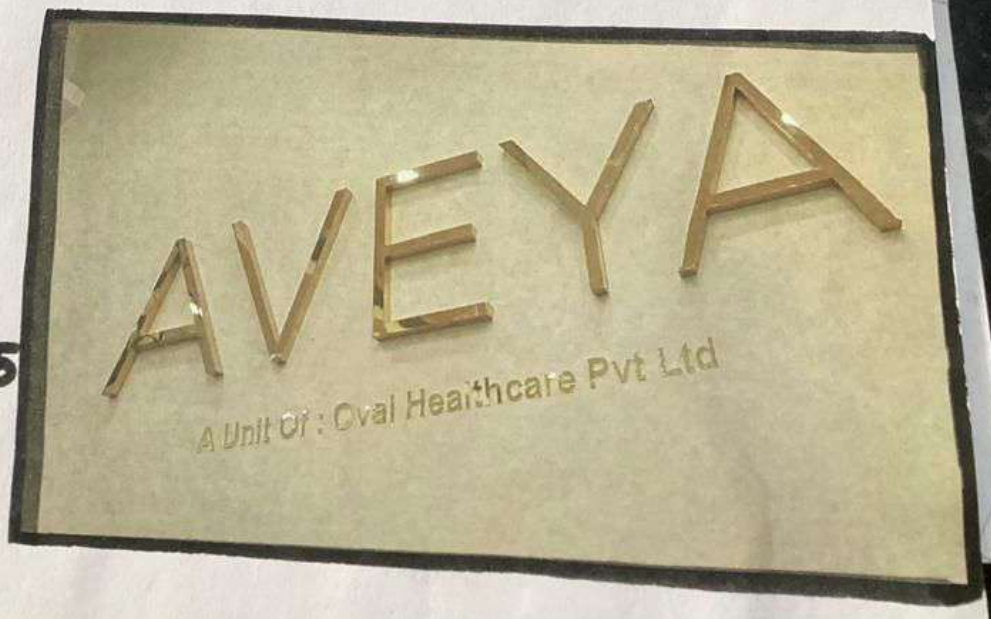
In-Vitro Fertilisation (IVF)

Name: Anjali Kumari

Course: B.sc. Life Sciences

Roll No.: 23/23105

Section : B




GPS Map Camera
Delhi, Delhi, India
B8, Block D, Vishal Enclave, Tagore Garden Extension, Delhi, 110027, India
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Long 77.118391°
09/04/24 05:18 PM GMT +05:30
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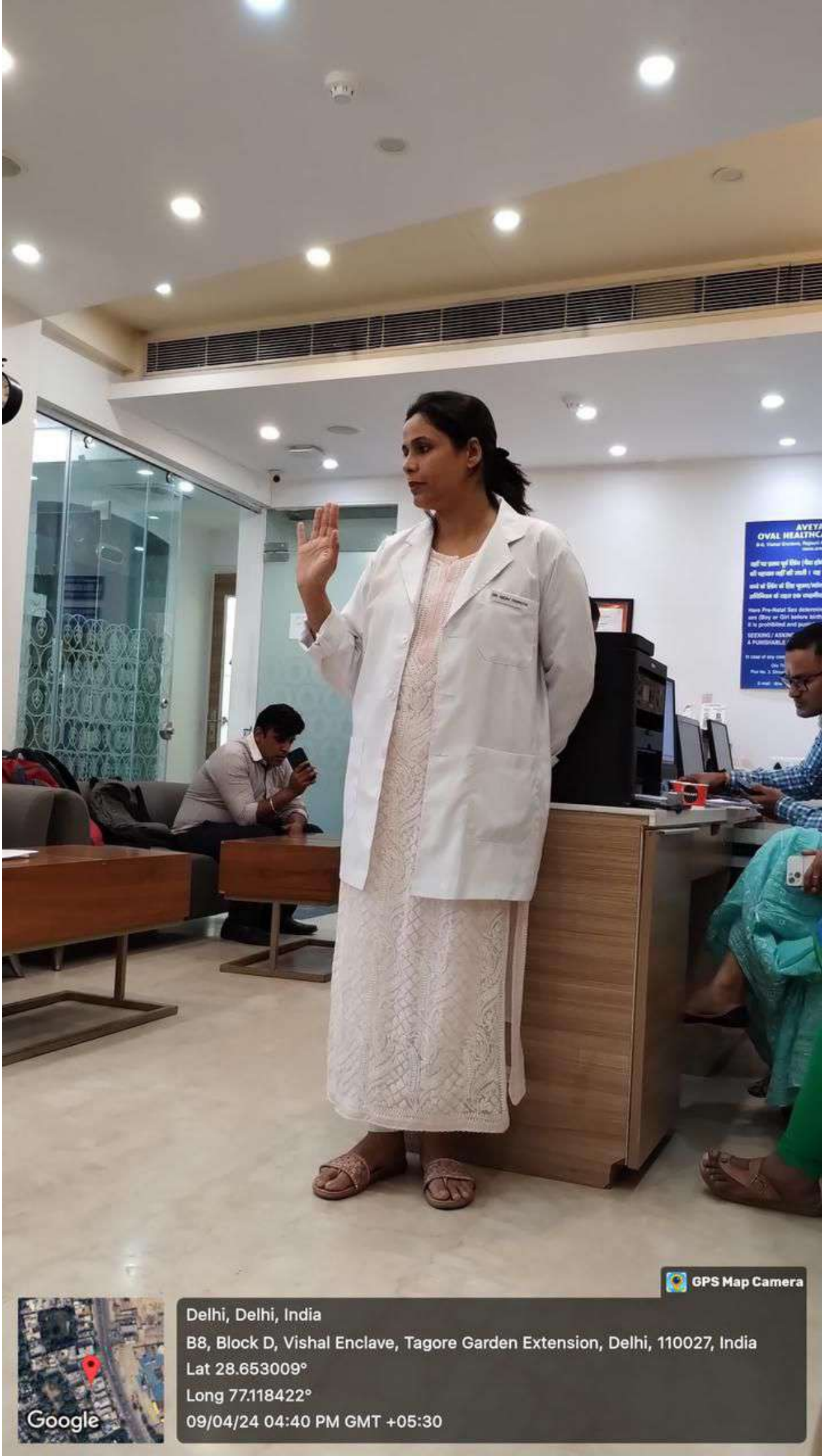
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Google

Shivaji College, University of Delhi
B.Sc. Life Science, Section B, Sem-II (B4)
Cell and Developmental Biology of Animals
Visited by : Dr. Tsewang Namgial

Section :- B Students List

Roll No	Name	In	Signature Out
23/23037	PRACHI SAINI	Prachi	Prachi
23/23082	NIDHI MISHRA	Nidhi	Nidhi
23/23083	NIRUPAM LAL		
23/23084	PINKI	Pinki	Pinki
23/23085	PIYUSH RANJAN	P.Kumari	P.Kumari
23/23086	PREETI		
23/23087	PRIYANSHU RAJ		
23/23088	RACHIT YADAV	Rachit.	Rachit.
23/23089	RAYEES ANSARI	Rayees Ansari	Rayees Ansari
23/23090	SAGAR PATEL	Sagar	Sagar
23/23091	SANSKAR BEDA		
23/23092	Sarah Ayman		
23/23093	SATWIKI	Satwiki	Satwiki
23/23094	Siddharth Singh	Siddharth	Siddharth
23/23095	SNEHIL PRAJAPATI	Snehil	Snehil
23/23096	Tanishq dhaka	Tanishq	Tanishq
23/23097	TANVI DHALL		
23/23098	Tulsi Sharma		
23/23099	UTPAL KANT	Utpal	Utpal
23/23100	VANSHIKA RAGHUVANSHI		
23/23101	ZAHBIYA MEHER		
23/23102	ABHISHEK BISWAS	Abhishek	Abhishek
23/23103	AFREEN	Afreen	Afreen
23/23104	ANIKET SINGH CHAUHAN		
23/23105	Anjali Kumari	Anjali	Anjali
23/23106	ANJALI SINGH	Ayushi	Ayushi
23/23107	Ayushi Tonk		
23/23108	Deepali Gupta		
23/23109	Disha Swami		
	HARSHITA CHOPRA		

Roll- 82-150

SYLLABUS OF Zoo-LS-DSC-06

UNIT - I Cell Division and Differentiation 06 Hours

Types of animal cells and tissues, Mitosis, meiosis, Cell cycle regulation, Cell-cell communication, Stem cells, Differential gene expression.

UNIT- II: Scope and History of Developmental Biology 03 Hours

Historical perspective including contributions by eminent scientists and landmark experiments in the field of Developmental Biology, Concepts of Epigenesis, Preformation, Von Baer laws.

UNIT- III: Early Embryonic Development 15 Hours

Gametogenesis: Spermatogenesis and Oogenesis in mammals; Types of Eggs and Egg membranes Fertilization: External (amphibians) and Internal (mammals), Fast and slow blocks to Polyspermy; Types and Patterns of cleavage; Types of morphogenetic movements; Early development of frog and chick up to gastrulation. Fate maps

UNIT- IV: Late Embryonic Development 04 Hours

Fate of Germ Layers; Formation of neural tube, Extra-embryonic membranes in birds

UNIT- IV: Post Embryonic Development 02 Hours

Metamorphic events and its hormonal regulation in amphibians. Prokaryotic and Eukaryotic cells; Various models of plasma membrane structures, Transport across membranes: active and passive transport, facilitated transport; Cell-cell junctions, structures, and functions: Tight junctions, adherens junctions, gap junctions.

Practical Component – 60 Hours

1. Study of the various stages of meiosis through permanent slides. & some old Lenses Microscope-8 / meiosis Slide
2. Frog - Study of developmental stages - whole mounts and sections through permanent slides- cleavage stages, blastula, gastrula, neurula, tail bud stage, tadpole external and internal gill stages.
3. Chick – Study of Whole Mounts of developmental stages of Chick through permanent slides (HH stages)- 13 hrs, 18hrs, 24hrs, 28hrs, 33hrs, 36hrs, 48hrs, 72hrs and 96hrs.
4. Study of the different types of placenta along with its function- through permanent slides / photomicrograph.
5. Study of various developmental stages in the life Cycle of Drosophila using stock culture/ permanent slides/ photomicrograph.
6. Visit to IVF centre/ Poultry Farm.
7. Project report on IVF Centre/ Poultry farm/ Drosophila culture/ Zebra fish culture.

Namgial
Dr. Tsewang Namgial