



# Miranda House

## UNIVERSITY OF DELHI

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### Departmental Annual Report - 3

#### Departmental Activities: Curriculum and Beyond

##### Department: Zoology

Year: 2024-25

##### Department Society and its Office Bearers:

Zoology Society, Synapse initiated a Lecture Series, as well as organized stand-alone lectures, workshops and events. Besides these, student activities such as Farewell, Teacher's Day, Children's Day, Fresher's Welcome and Departmental Fest were also organized.

##### Staff Advisors:

President	Vice President	General Secretary	Treasurer	Editors	Co-Editors	Event Manager	Creative Head
Deeksha Baghel	Priyanshi Rawat	Fathima Amal	Shipra Tiwari	Pallavi Singh and Sneha Chhonkar	Diya Bamba and Rahnuma Firdous	Shreya Mishra and Ayushi	Aashna Sharma

##### Staff Advisors:

Prof. Rekha Kumari

Dr. Deepak Yadav



# Miranda House UNIVERSITY OF DELHI

## Part B.1

### Seminars/conferences/workshops conducted by the Department

On September 4, 2025, Dr. Shibashish Giri delivered a **Lecture** on "Stem Cells and Longevity", covering topics like stem cell role in tissue regeneration, organ renewal, and of physical activity, diet, and yoga for overall health, followed by a Q&A session.

#### Participation Details

Students	In-house faculty	Faculty outside MH	Total number of participants
B. Sc. Hons. Zoology Semester 6 (38 students) and Semester 4 (40 students)	11	0	117

**SYNAPSE**  
Department of Zoology  
Miranda House, University of Delhi  
presents  
**LECTURE**  
On  
**STEM CELL SYSTEM AND LONGEVITY**  
By  
**Dr. Shibashish Giri**  
Chief Scientific Officer  
(AB Company, UK, USA)  
Adjunct Professor  
MIPT, Moscow, Russia

ROOM NO. 248  
WEDNESDAY 4th SEPT, 2024  
TIME IST 11:30am onwards

Prof. Rekha Kumari Dr. Deepak Yadav (Staff advisors) Shelly Chauhan (President, Synapse) Prof. Bijayalaxmi Nanda (Principal, Miranda House)

mhsynapse.official@gmail.com [synapsemhzoology](https://www.instagram.com/synapsemhzoology)

Delhi, Delhi, India  
M6V5+4MM, Delhi, 110007, India  
Lat 28.692771° Long 77.209364°  
04/09/24 12:25 PM GMT +05:30



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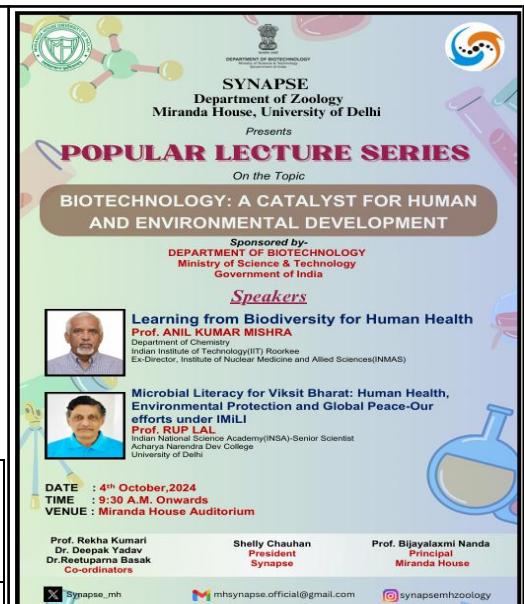
## Popular lecture series:

The series was initiated to inspire young talented minds to take career paths in the field of STEM. Two lectures were organized this session.

On October 4, 2024, Synapse, commenced its Popular Lecture Series on the theme “Biotechnology: A Catalyst for Human and Environmental Development”, under the auspices of the Department of Biotechnology, Ministry of Science and Technology, Government of India. The inaugural session featured distinguished speakers, **Prof. Anil Kumar Mishra** and **Prof. Rup Lal**, who shared valuable insights on biodiversity, microbial literacy and the critical role of biotechnology in sustainable development.

## Participation Details

Students	In-house faculty	Faculty outside MH	Total number of participants
B. Sc. Hons. Zoology Semester 6 (38 students) and Semester 4 (40 students)	11	0	117





# Miranda House

## UNIVERSITY OF DELHI

The National Capacity Building Workshop, organized by Synapse, Department of Zoology, Miranda House, was a three-day program (October 14<sup>th</sup> to 16<sup>th</sup>) focused on Biomedical Research. It provided participants with hands-on training in research methodologies, fostering skills in both experimental and observational approaches. Covering topics from foundational concepts to advanced practices, the workshop offered valuable exposure to innovative techniques in contemporary biomedical research.

### ***Participation Details:***

Students	In-house faculty	Faculty outside MH	Total number of participants
B. Sc. Hons. Zoology Semester 6 (38 students) and Semester 4 (40 students)	10	1	89



**National Capacity Building Workshop- 2024**

**Emerging Frontiers in Biomedical Research: Drug Resistance to Drug Delivery**

**14<sup>th</sup> - 16<sup>th</sup> October, 2024**

**Organized By**  
Synapse  
Department of Zoology  
Miranda House, University of Delhi  
**Sponsored by**  
Indian National Science Academy (INSA)

**ENVIRONMENT POLLUTION & HUMAN HEALTH**  
Lecture and Hands-on-training on Bio resource, Pathogen Mapping & Drug Resistance

**NANOTECHNOLOGY & DRUG DELIVERY**  
Lecture and Hands-on-training on Nanoparticle Synthesis and Drug Loading

**MOLECULAR DIAGNOSTICS**  
Lecture and Hands-on-training on PCR, Gel Electrophoresis and Blood Group Typing

**Scan to Register**  
**Limited seats available**  
Registration till filling of the seats or till October 5, 2024, whichever is earlier

**Certificates will be provided on successfully completing the workshop**

**Venue**  
Mini Auditorium & Department of Zoology, Miranda House

**Prof. Rekha Kumari**  
Chairperson  
**Prof. Bijayalaxmi Nanda**  
Patron & Principal  
Miranda House  
**Dr. Deepak Yadav**  
**Dr. Reetigarma Basak**  
Organizing Secretary



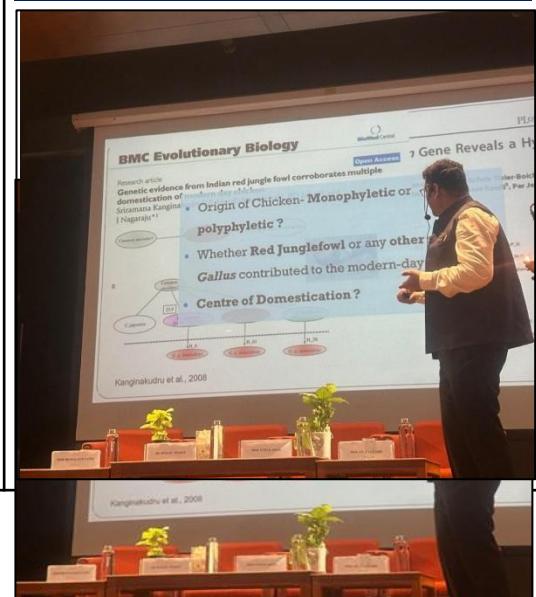
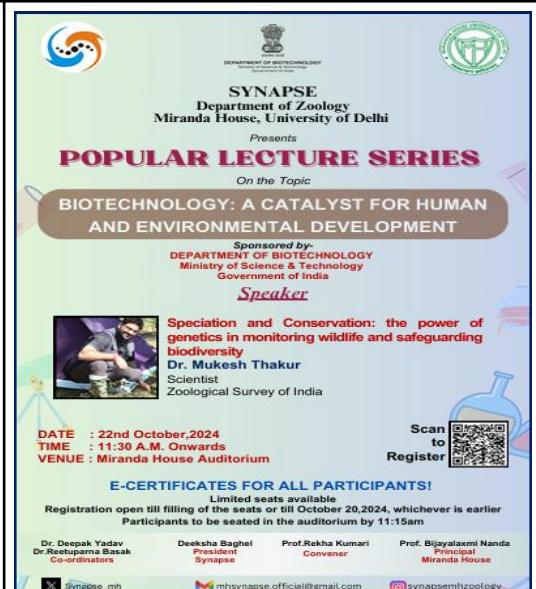
# Miranda House

## UNIVERSITY OF DELHI

Continuing the Popular Lecture Series on the theme "Biotechnology: A Catalyst for Human and Environmental Development", **Dr. Mukesh Thakur** (Scientist, Zoological Survey of India) delivered a lecture on October 22, 2024, titled "Specialization and Conservation: The Power of Genetics in Monitoring Wildlife and Safeguarding Biodiversity", further enriching the discourse on conservation genetics and environmental protection.

### Participation Details:

Students	In-house faculty	Faculty outside MH	Total number of participants
B. Sc. Hons. Zoology Semester 6 (41 students) and Semester 4 (65 students) and Semester 1 (39 students)	11	0	156





# Miranda House

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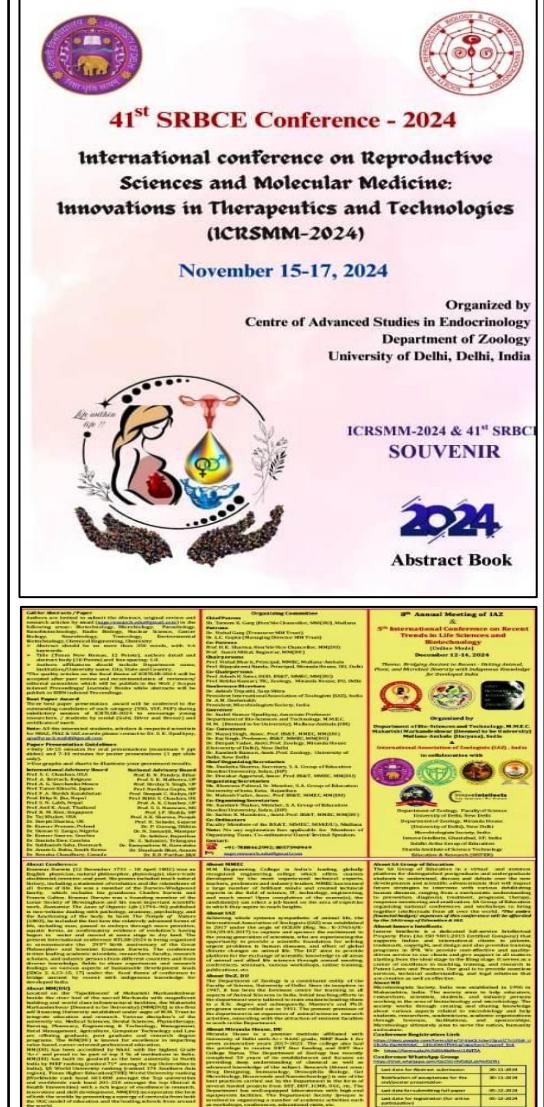
# International Conference

From 15-17 November 2024, Miranda House hosted a three-day **International Conference** on the theme, “Innovations in Therapeutics and Technologies”. This conference was organized as part of the 41st Annual Meet of the Society for Reproductive Biology and Comparative Endocrinology (SRBCE).

### ***Participation Details:***

301 participants, including 101 undergraduate, 99 doctoral candidates, and leading researchers and faculty.

<b>Students</b>	<b>In-house faculty</b>	<b>Faculty outside MH</b>	<b>Total number of participants</b>
200	11	90	301





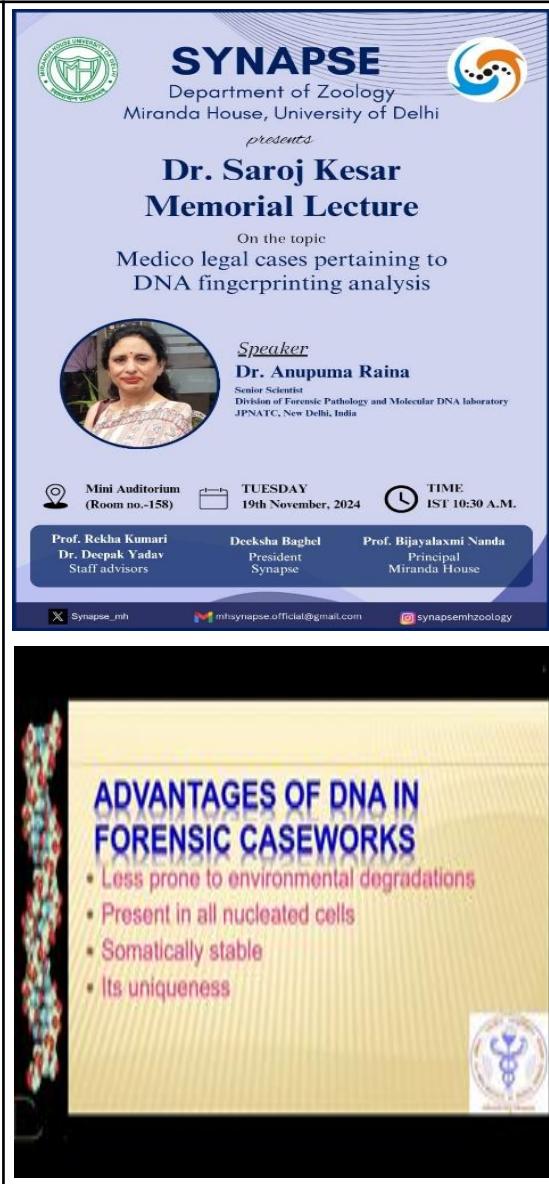
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## UNIVERSITY OF DELHI

On November 19, 2024, the Department of Zoology, Miranda House hosted the 4th Dr. Saroj Kesar Memorial Lecture by **Dr. Anupama Raina**, Senior Scientist at JPNATC, New Delhi. Speaking on “Medico-Legal Cases Pertaining to DNA Fingerprinting Analysis,” she discussed the forensic use of STR markers, challenges with degraded DNA, and landmark case studies, offering valuable insights into DNA-based investigations and their role in criminal justice.

### **Participation Details:**

Students	In-house faculty	Faculty outside MH	Total number of participants
B. Sc. Hons. Zoology Semester 6 (41 students) and Semester 4 (65 students) and Semester 1 (39 students)	11	0	156



**SYNAPSE**  
Department of Zoology  
Miranda House, University of Delhi  
presents

**Dr. Saroj Kesar  
Memorial Lecture**

On the topic  
Medico legal cases pertaining to  
DNA fingerprinting analysis

  
*Speaker*  
**Dr. Anupama Raina**  
Senior Scientist  
Division of Forensic Pathology and Molecular DNA Laboratory  
JPNATC, New Delhi, India

 Mini Auditorium  
(Room no.-158)  TUESDAY  
19th November, 2024  TIME  
IST 10:30 A.M.

Prof. Rekha Kumari  
Dr. Deepak Yadav  
Staff advisors      Deeksha Baghel  
President  
Synapse      Prof. Bijayalaxmi Nanda  
Principal  
Miranda House

[Synapse\\_nh](#) [mhsynapse.official@gmail.com](mailto:mhsynapse.official@gmail.com) [synapsemhzoology](#)

  
**ADVANTAGES OF DNA IN FORENSIC CASEWORKS**

- Less prone to environmental degradations
- Present in all nucleated cells
- Somatically stable
- Its uniqueness





# Miranda House

## UNIVERSITY OF DELHI

### Career Counselling Session

The series was continued from the previous session to clarify the general doubts students have when it comes to choosing the next step after college. A session was organized on January 9, 2025, featuring Rishabh Jain, who shared insights from his journey and experiences in research and clinical data analysis.

#### *Participation Details:*

Students	In-house faculty	Faculty outside MH	Total number of participants
B. Sc. Hons. Zoology Semester 6 (41 students) and Semester 4 (65 students) and Semester 1 (39 students)	11	0	156

**SYNAPSE**  
Department of Zoology  
Miranda House, University of Delhi  
presents

### Career Counselling Session Lecture:11

*Guest Speaker*

**Rishabh Jain**  
EU Clinical Data Associate  
Johnson and Johnson MedTech, Aachen,  
Germany

**VENUE**  
Room no.-248

**THURSDAY**  
9th January, 2025

**TIME**  
IST 12:30 P.M.

**Prof. Rekha Kumari**  
**Dr. Deepak Yadav**  
Staff advisors

**Deeksha Baghel**  
President  
Synapse

**Prof. Bijayalaxmi Nanda**  
Principal  
Miranda House

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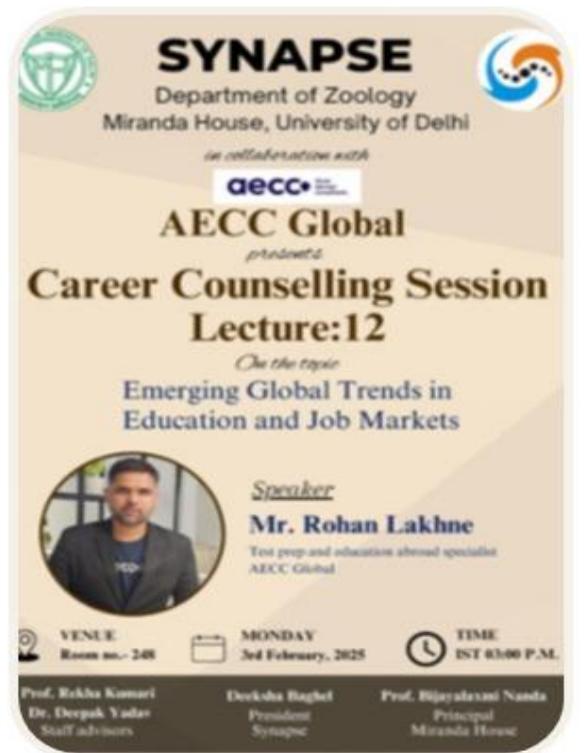
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## UNIVERSITY OF DELHI

On February 3, 2025, a career counseling session was organized in collaboration with AECC Global, focusing on "Emerging Global Trends in Education and Job Market".

### Participation Details:

Students	In-house faculty	Faculty outside MH	Total number of participants
B. Sc. Hons. Zoology Semester 6 (41 students) and Semester 4 (65 students) and Semester1 (39 students)	11	0	156





# Miranda House UNIVERSITY OF DELHI

## International Conference

An international conference on the theme "Role of Biotechnology in Biological Sciences: Striving for a Sustainable Future" (RBBS) from 6<sup>th</sup>-8<sup>th</sup> February 2025 organized by the Department of Zoology, Miranda House. The event brought together students, researchers, and professionals for keynote talks, panel discussions, and paper and poster presentations. It promoted academic-industry interaction, encouraged innovation, and provided valuable insights into emerging trends and research in the life sciences.

### Participation Details:

Students	In-house faculty	Faculty outside MH	Total number of participants
315	11	70	396

**RBBS 2025**

**INTERNATIONAL CONFERENCE**  
**ROLE OF BIOTECHNOLOGY IN BIOLOGICAL SCIENCES: STRIVING FOR A SUSTAINABLE FUTURE**

**6<sup>th</sup>-8<sup>th</sup> FEBRUARY, 2025**

Organized by  
Department of Zoology, Miranda House  
in collaboration with

**THEMES**

- Microbiology and Biotechnology: Friends with Cautions
- Biomedicine and Biotechnology: Diagnostics to Cure
- Biotechnology and Food Science: Era of Pro-, Pre- & Symbioses
- Environmental Science and Biotechnology: Tackling Climate Change
- SDG and Biotechnology: A Step towards Sustainable Development
- Bioinformatics: Modifying Human Pathways to Environment
- Industrial Biotechnology and Entrepreneurship
- Nanotechnology
- Women in Biotechnology
- Career Opportunities in Biotechnology
- AMR: Magic Bullets Need Taming

**Registration & Abstract Submission Date:** 15<sup>th</sup> January, 2025

**Registration & Abstract submission**

**Attractions:**  
Faculty Oral Talk in Biological Sciences  
UG/PG Poster Presentations  
Ph.D. Oral/Poster Presentations

**Fee Structure**

Category	Fee
Students (UG & PG)	INR 1500
Research Scholars (M.Phil./Ph.D.)	INR 3000
Post Docs/Faculty/ Academician	INR 5000
Industrialists/ Entrepreneurs/Others	INR 8000
Foreign participants	INR 20000

**Sponsored by**

**MH Website**   
**INSCR Website**





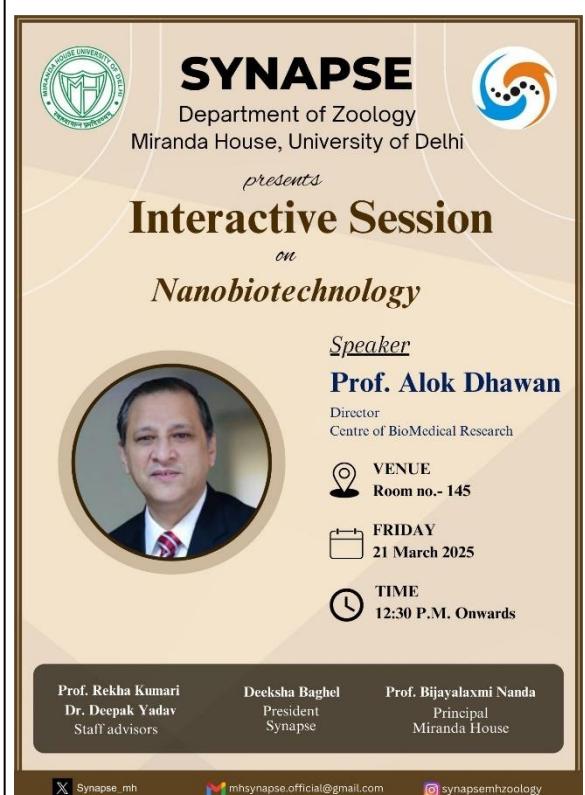
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On March 21, 2025, an interactive session on nanobiotechnology was held with Professor Alok Dhawan, Director of the Centre for Biomedical Research, as the speaker.

### Participation Details

Students	In-house faculty	Faculty outside MH	Total number of participants
B. Sc. Hons. Zoology Semester 6 (41 students) and Semester 4 (65 students) and Semester 1 (39 students)	11	0	156



**SYNAPSE**  
Department of Zoology  
Miranda House, University of Delhi

**presents**

### Interactive Session

*on*

### Nanobiotechnology

**Speaker**  
**Prof. Alok Dhawan**  
Director  
Centre of BioMedical Research

**VENUE**  
Room no.- 145

**FRIDAY**  
21 March 2025

**TIME**  
12:30 P.M. Onwards

Prof. Rekha Kumari  
Dr. Deepak Yadav  
Staff advisors

Deeksha Baghel  
President  
Synapse

Prof. Bijayalaxmi Nanda  
Principal  
Miranda House

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# Miranda House

## UNIVERSITY OF DELHI

### Part B.2

#### Extension Activities organized

Summer Workshop for undergraduate Science students, Flavor of Research: Investigative Projects in Multidisciplinary Contexts, held at the D.S. Kothari Centre for Research and Innovation in Science Education, Miranda House, University of Delhi. Participation: 10 faculty members of the Zoology Department guided many undergraduate Zoology Students from across institutions. Participants-58





# Miranda House

## UNIVERSITY OF DELHI

On August 29, 2024, the Zoology Department conducted an orientation program for freshers, introducing them to the faculty, syllabus, and departmental structure.

### ***Participation Details***

<b>Students</b>	<b>In-house faculty</b>	<b>Faculty outside MH</b>	<b>Total number of participants</b>
B. Sc. Hons. Zoology Semester 1 (20 students) and 11 union members	11	0	42





# Miranda House

## UNIVERSITY OF DELHI

The Department celebrated Teachers' Day on September 5th with great enthusiasm, honoring faculty and staff for their dedication and guidance. The program featured student performances, expressions of gratitude, and heartfelt messages, creating a warm and celebratory atmosphere that acknowledged the invaluable role of teachers in academic and personal growth.

### Participation Details

Students	In-house faculty	Faculty outside MH	Total number of participants
B. Sc. Hons. Zoology Semester 6 (41 students) and Semester 4 (65 students) and Semester 1 (39 students)	11	0	156





# Miranda House

## UNIVERSITY OF DELHI

A Bridge Course on Laboratory Instrumentation: Principle, Usage and Applications was conducted from 9<sup>th</sup> -13<sup>th</sup> September 2024, under the aegis of IQAC for B.Sc. Hons. Zoology and B.Sc. Life Sciences First year students. The course structure aimed to provide an introduction to laboratory instruments and techniques present in the Department.

### **Participation Details:**

Students	In-house faculty	Faculty outside MH	Total number of participants
B. Sc. Hons. Zoology (41) and B.Sc Life Sciences (40)	11	0	92

**Department of Zoology**  
**Miranda House**  
under the aegis of  
IQAC  
Organizes  
Bridge Course  
on  
**LABORATORY INSTRUMENTATION:  
PRINCIPLE, USAGE & APPLICATIONS**  
A course on basic lab instruments and techniques  
For  
B.Sc. (H) Zoology  
SEM- I Students  
9<sup>th</sup> - 13<sup>th</sup> September, 2024



Prof. Rekha Kumari  
Dr Deepak Yadav  
COURSE CO-ORDINATORS

Prof. Bijayalaxmi Nanda  
Principal  
Miranda House

**Department of Zoology**  
**Miranda House**  
under the aegis of  
IQAC  
Organizes  
Bridge Course  
on  
**LABORATORY INSTRUMENTATION:  
PRINCIPLE, USAGE & APPLICATIONS**  
A course on basic lab instruments and techniques  
For  
B.Sc. Life Sciences  
SEM- I Students  
10<sup>th</sup> September, 2024



Prof. Rekha Kumari  
Dr Deepak Yadav  
COURSE CO-ORDINATORS

Prof. Bijayalaxmi Nanda  
Principal  
Miranda House



# Miranda House

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### Field Trips

On 2nd September 2024, the Department organized an educational visit to the **International Toilet Museum**, New Delhi, for 30 students. The visit offered an engaging overview of sanitation systems, menstrual hygiene management, and biogas treatment technologies. Through interactive exhibits and discussions, students gained awareness of public health challenges and sustainable sanitation solutions, making the visit both informative and socially meaningful.



Students	In-house faculty	Faculty outside MH	Total number of participants
B. Sc. Hons. Zoology Semester 4, students=65	Dr. Bhawna Chuphal	0	66

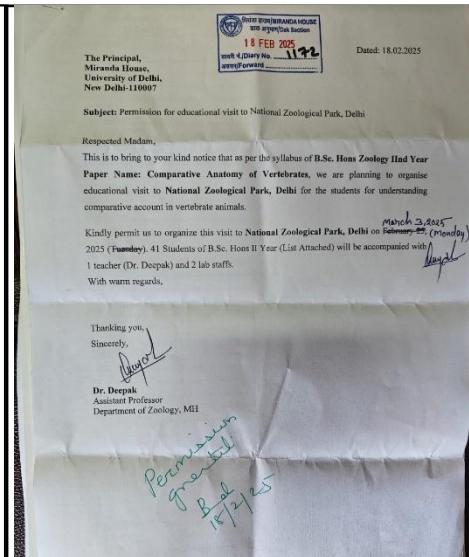


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An educational visit to the National Zoological Park, Delhi was organized by the Department for the B.Sc.(H) Zoology Semester 4 students under the curriculum of “Comparative Anatomy of Vertebrates” on 13th February, 2025.

## Participation Details:

Students	In-house faculty	Faculty outside MH	Total number of participants
B. Sc. Hons. Zoology Semester 4, students=38	Dr. Deepak	0	40





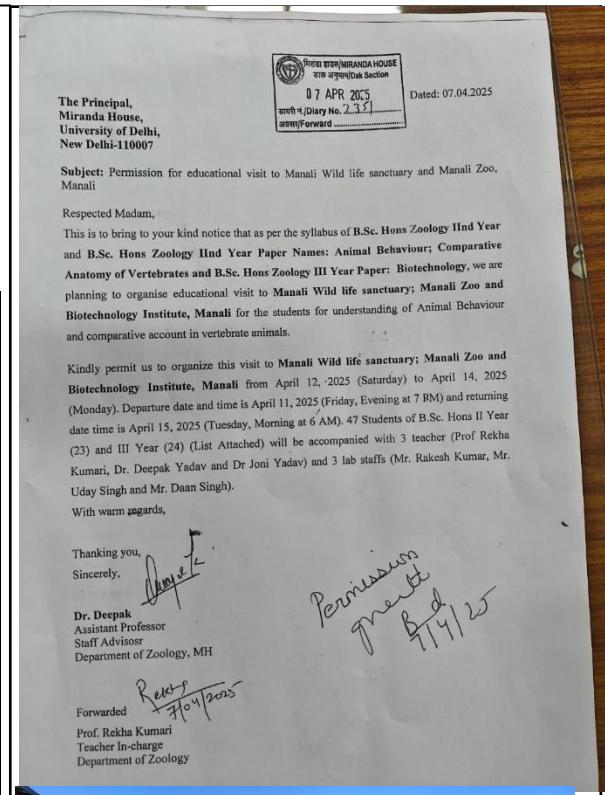
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From April 11th to 15th, 2025, a curriculum-based **field trip** was organized to Manali, Solang, Kasol, and Atal Tunnel, providing students with a hands-on learning experience in a scenic and strategically significant region.

### Participation Details:

Students	In-house faculty	Faculty outside MH	Total number of participants
B. Sc. Hons. Zoology Semester 6 (24 students) and Semester 4 (23 students)	Prof. Rekha Kumari, Dr. Deepak and Dr. Joni (3 non-teaching staff)	0	40





# Miranda House

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On 25th September 2024, the Department hosted Talent Hunt 2024 for the batch of 2027–28, attracting 54 enthusiastic entries across categories such as dance, singing, photography, and more. The event showcased diverse creative skills and campus talent, with top entries receiving e-certificates and social media shoutouts in recognition of their performances.

### **Participation Details:**

Students	In-house faculty	Faculty outside MH	Total number of participants
B. Sc. Hons. Zoology Semester 1 (45 students)	2	0	47





# Miranda House

## UNIVERSITY OF DELHI

On October 24, 2024, "Fée des Mers" Freshers 2024 welcomed newcomers with captivating performances and interactive activities, setting the tone for a memorable journey.

### Participation Details:

Students	In-house faculty	Faculty outside MH	Total number of participants
75	10	0	85





# Miranda House

## UNIVERSITY OF DELHI

On 22<sup>nd</sup> April 2025, the Department organized a farewell themed “**Graduation Na Milegi Dobara**” for the outgoing batch of 2022, marking a nostalgic and heartfelt celebration of their journey and achievements. The event featured performances, fun activities, and speeches that reflected on shared memories and friendships. Tokens of appreciation were presented, making the farewell both emotional and memorable as students prepared to embark on their next chapter.

### **Participation Details:**

Students	In-house faculty	Faculty outside MH	Total number of participants
B. Sc. Hons. Zoology Semester 6 (41 students) and Semester 4 (65 students) and Semester 1 (39 students)	11	0	156

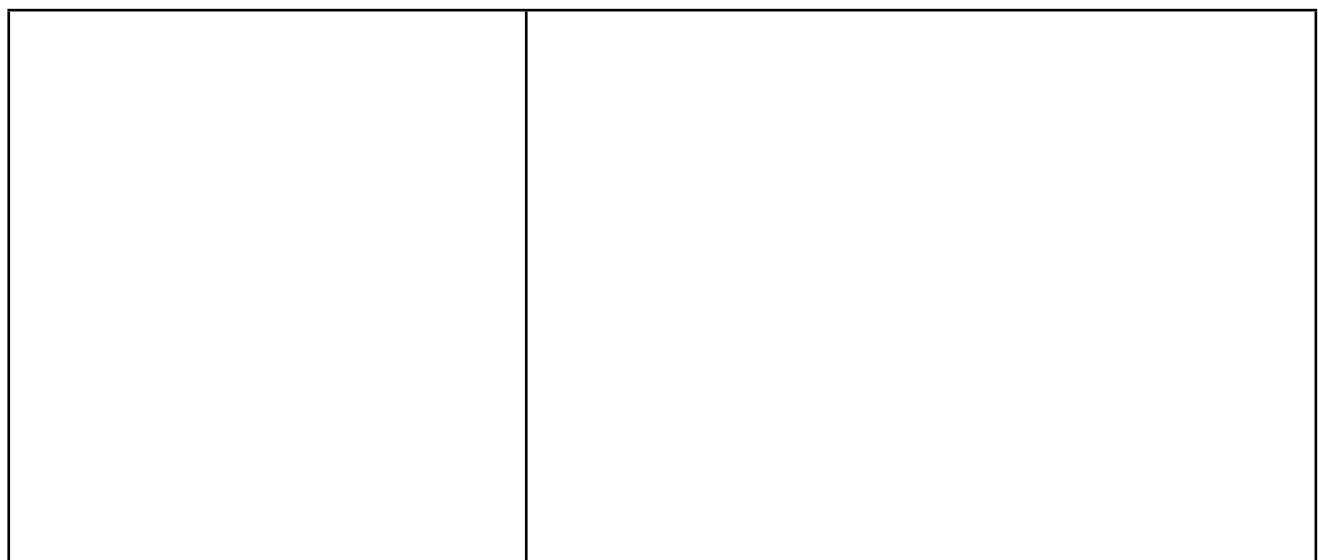




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