



# Miranda House

## UNIVERSITY OF DELHI

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### Departmental Annual Report - 3

#### Departmental Activities: Curriculum and Beyond

**Department:** Zoology

**Year:** 2020-21

#### Department Society and its Office Bearers:

Zoology Society, Synapse organizes various seminars, Symposium and workshops to create a holistic environment of learning beyond classrooms. Webinars were also arranged to provide learning environments to students during COVID-19 Pandemic. Activities also include arranging Fresher's Welcome, Student Excursion, Bridge courses and Farewell party.

President	Vice President	General Secretary	Treasurer	Editors	Co-Editors	Event Manager
Arukshita Tyagi	Muskan Yadav	Sreeja Bathula	Aarzoo	Khushi Shrivastava and Haripriya	Kamakshi Singh and Kritika	Samridhi

#### Staff Advisors:

Dr. Simranjit

Dr. Yasha Yadav



# Miranda House UNIVERSITY OF DELHI

## Part B.1

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

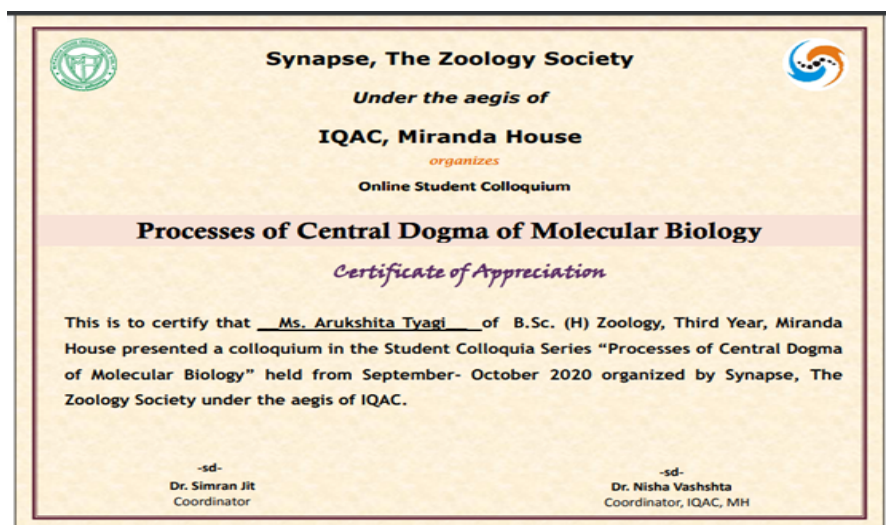
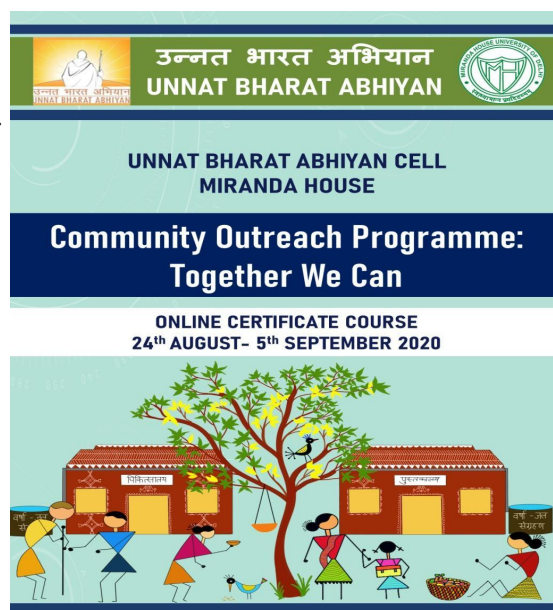
A Two-week online certificate course on “*Community Outreach Programme: Together We Can*”. organized by Unnat Bharat Abhiyan Cell, Miranda House, University of Delhi from 24 August to 05 September, 2020. In this Workshop, several prominent leaders in the field of social work like *Prof. Virendra Kumar Vijay*, *Prof. Neera Agnimitra*, *Prof. Sanghmitra Sheel Acharya*, *Prof. Shamim Modi*, *Dr. Mirai Chatterjee* to name a few delivered their lectures.

The course was engaging, meaningful and thought provoking and elicited good response from the participants. The participants included students and teachers from different universities

all over India.

The knowledge acquired by everyone during the course would enhance the level of engagement and commitment towards the community.

Participants-206



Another students Colloquium series on *Processes of Central Dogma of Molecular Biology* was also organized in **September-October, 2020**, coordinated by **Dr. Simran Jit**. This curriculum based collaborative student colloquium reviewed the three central processes of Molecular Biology: Replication, Transcription and Translation. The activity involved preparation and presentation of digital or hand-made minds maps on various sub topics of central dogma.

Participants-39



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Another, One day International symposium on *Breast Cancer Awareness* organized by NSS, Miranda House in association with ACRB, UBA, Miranda House, and Synapse, The Zoology Society, Miranda House on October 24, 2020.

International experts in the field of Cancer Biology; Prof. Anil Shanker, Meharry medical college, USA and Dr. Navita Somaiah, the institute of cancer research and Royal Marsden college, UK shared the current insights on cancer research and treatments. And Dr. Kanchan Kaur, Director, Breast Surgery- Medanta-The medicity shared the comprehensive strategies for breast cancer control, awareness of early signs and symptoms and screening by clinical exam. A panel discussion of breast cancer survivors was also part of the symposium, the panelists were from diverse backgrounds and shared their experience and challenges faced in their fight against breast cancer.

Participants-178

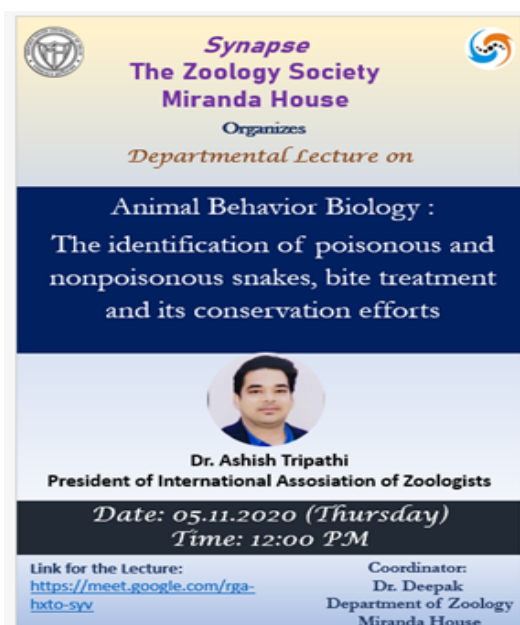
***Triumphs in Physiology: A Colloquium Series on The Nobel prize winner in Physiology and Medicine and their work that changed Humanity*** was organized from 28 October, 2020 to 11 November, 2020. It was coordinated by Dr. Nisha Vashishta. This student colloquium was based on the pioneer research by scientists in the field of Physiology and Medicine which won the Nobel Prize and thus significantly contributing Humanity in our fight to understand various disease epidemiologies, various physiological and biochemical mechanisms of our body, fighting cancer, etc.

Participants-49






# Miranda House UNIVERSITY OF DELHI



**Synapse**  
**The Zoology Society**  
**Miranda House**  
Organizes  
*Departmental Lecture on*

**Animal Behavior Biology :**  
The identification of poisonous and nonpoisonous snakes, bite treatment and its conservation efforts

  
**Dr. Ashish Tripathi**  
President of International Association of Zoologists

**Date: 05.11.2020 (Thursday)**  
**Time: 12:00 PM**

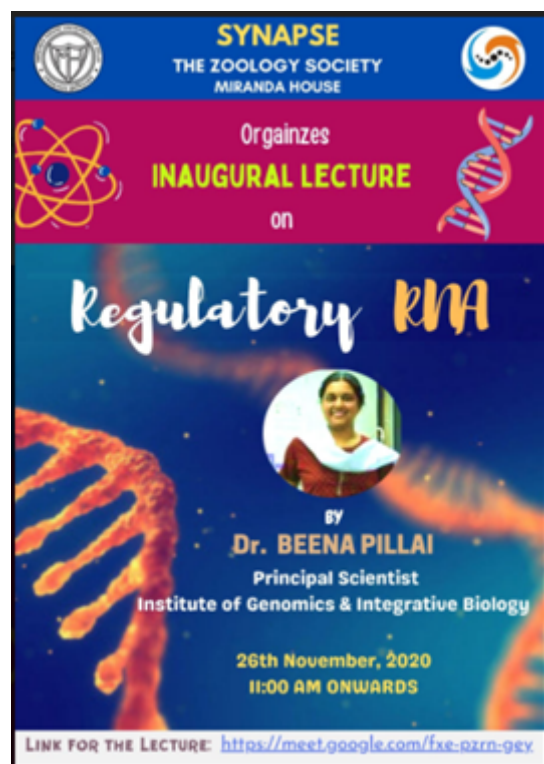
Link for the Lecture: <https://meet.google.com/rga-hxto-syv>  
Coordinator: Dr. Deepak  
Department of Zoology  
Miranda House

A Departmental Lecture coordinated by Dr. Deepak was organized on **November 5, 2020** on topic “*The identification of poisonous and non-poisonous snakes, bite treatment and its conservation efforts*” by **Dr. Ashish Tripathi (President, International Association of Zoologists)**. He shared his insights on the diverse assemblage of snakes found in India, most of them being non-poisonous. The identification of common poisonous snakes of India like Cobra, Krait, Russel’s and Saw scaled viper was also shared with the students. Participants-45

The Inaugural Lecture on **Regulatory RNA** by **Dr. Beena Pillai, Principal Scientist, Institute of Genomics and Integrative Biology** was organized on **November 26, 2020**.


Students learnt the importance of regulatory RNAs which is a heterogenous group of both short and long RNAs that regulate gene expression and their dysregulation has been implicated in the initiation and progression of many human malignancies and diseases. The understanding of these regulatory RNAs can bring major breakthroughs in clinical practice.

Participants-76



**SYNAPSE**  
**THE ZOOLOGY SOCIETY**  
**MIRANDA HOUSE**  
Organizes  
**INAUGURAL LECTURE**  
on

**Regulatory RNA**

  
BY  
**Dr. BEENA PILLAI**  
Principal Scientist  
Institute of Genomics & Integrative Biology

**26th November, 2020**  
**11:00 AM ONWARDS**

LINK FOR THE LECTURE: <https://meet.google.com/fxe-qzrn-gev>







# Miranda House UNIVERSITY OF DELHI

Dr. Rekha Kumari organized a 4 week long workshop on ‘*Know your Environment: Policy Making and Implementation*’ for the students of Sem I EVS from 28, December 2020 to 25, January 2021.

Dr. Sushma Moitra, Associate Professor, Department of Botany, Miranda House, University of Delhi. and Dr. Priyanka Sharma, Department of Environmental Studies, University of Delhi were the resource persons.

Participants- 182




**Miranda House**  
(University of Delhi)

**Department of Botany and Zoology**

Invites you to a  
Four week long workshop for UG students  
on  
**Know your Environment: Policy Making and Implementation**

**December 28, 2020 – January 25, 2021**



**Resource Persons**  
Dr. Sushma Moitra  
Associate Professor (Retd.), Department of Botany, Miranda House, University of Delhi  
Dr. Priyanka Sharma  
Ph.D, Department of Environmental Studies, University of Delhi

**Coordinators**  
Dr. Rekha Kumari  
Dr. Saloni Bahri

**Patron**  
Dr. Bijayalaxmi Nanda  
(Acting Principal)

#### Objective:

The Environment today is facing enormous pressure from myriads of human activities, as a result the environmental resources are continuously depleting and their quality is degrading. As an initiative to sensitize the youth towards various environmental issues, their effects and management approach the workshop has been designed for the undergraduate students, which will enlighten them about different aspects of the environment they live in.

#### Focus:

- Scope of Environmental Studies
- Environmental Resources and its Degradation
- Environmental Pollution, its effect on Human and Environment
- Interrelation of Society and Environment
- Step towards Environment Conservation: Policy and Implementation



**IQAC MIRANDA HOUSE**  
IN COLLABORATION WITH  
Unnat Bharat Abhiyan Cell, Miranda House  
Synapse, The Zoology Society, Miranda House

**Organizes**  
*Workshop*  
On  
**Science Communication**

**4-6 February 2021 | 3:00PM-5:00 PM**



**SPEAKER**  
**DR. ANUPMA HARSHAL W.**



Consultant (Science Communication and Public Engagement)  
Manav- Human Atlas Initiative, IISER, Pune

**Registration Link-**  
<https://forms.gle/rTA9k5jHXUwgNydf7>

The three-day online workshop on “*Science Communication*” under the aegis of Internal Quality Assurance Cell in collaboration with Unnat Bharat Abhiyan Cell and Synapse the Zoology Society, was held from 04-05 February, 2021. The resource person was Dr. Anupma Harshal W. (Consultant- MANAV- the human atlas initiative, IISER, Pune).

The workshop gave insights into the art of science writing, and how effective writing facilitates advancement in the communication of research. The workshop also dealt with the tools that can be used in constructive science communication.

Participants-278



# Miranda House UNIVERSITY OF DELHI

Another colloquium series was on ***Recent Breakthrough in Ecological Concepts and Principles*** in February 2021, coordinated by **Dr. Jyoti Arora**. This colloquium series focused on the ecological concepts and new insights into restoration ecology, threats to biodiversity and its conservation. Participants-50



Jyoti Arora  
to me

Thu, Feb 24, 6:10 AM (11 days ago) ☆ ↩ ⋮

----- Forwarded message -----

From: Jyoti Arora <jyoti.arora@mirandahouse.ac.in>  
Date: Sun, 24 Jan 2021, 21:34  
Subject: Permission to organize Colloquium  
To: Principal Miranda <principal@mirandahouse.ac.in>

Dear Madam,

Please permit me to organize a Colloquium on Recent Breakthroughs in Ecological concepts and Principles\* for students of B.Sc (H) Zoology I on 8 and 10 February 2021. I will be utilizing their scheduled class periods with me as per the time table. Each student will be presenting on the colloquium theme for 10 mins. It will be an enriching experience for them.

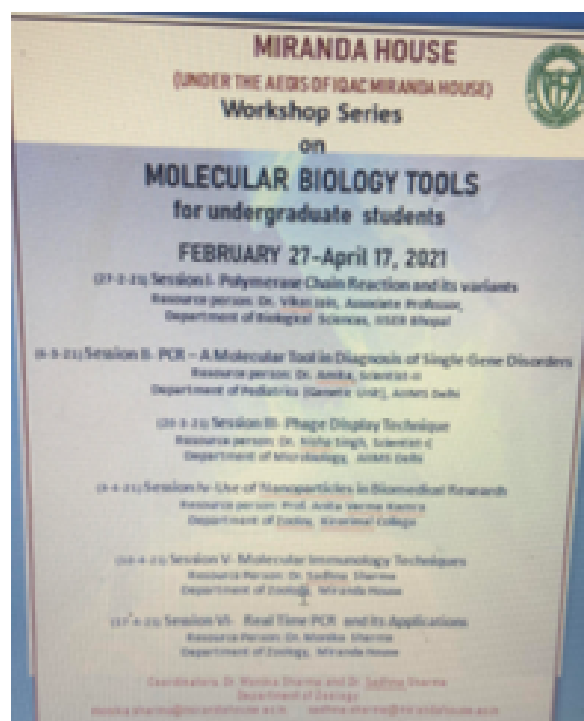
with warm regards,  
Sincerely,  
Jyoti Arora  
Assistant Professor  
Department of Zoology  
Miranda House

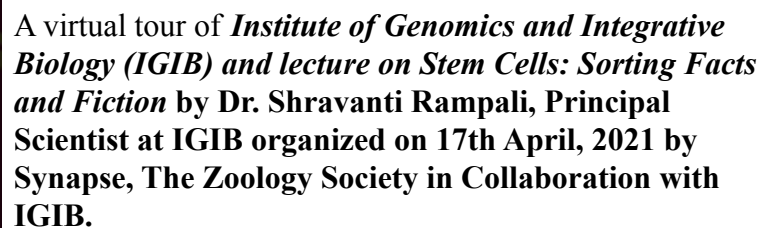
↩ Reply

➦ Forward

Workshop series on **Molecular Biology Tools** for third year students of B.Sc(H) Zoology and Life Sciences organized by **DS Kothari Centre for Research & Innovation in Science Education** and Department of Zoology, Miranda House under the aegis of IQAC was held from **February 27 to 17 April, 2021**. The workshop provided the opportunity to students to learn important techniques such as PCR, Microarray, Transfection in Mammalian cells and Phage Display Technique.

Participants-20.





## Participants-92





# Miranda House UNIVERSITY OF DELHI



A Career Counseling Session –“*Crafting Your Mind and Career*” on the occasion of Impulse 21 organized by Synapse –the zoology society of Miranda House under the aegis of IQAC was held virtually on April 29, 2021. The resource person was Dr. Smita Jain, Executive Director of India Bioscience. The session encouraged and motivated the students to choose the right career path and progressive decisions. Students learnt about various opportunities and career options.

Participants-55





# Miranda House UNIVERSITY OF DELHI

On Comemorating 75 years of Independence “National Institute of Immunology” organized an online lecture for Miranda House, University of Delhi on “*A deep dive into the Immunology of Covid-19 Vaccine*” on 20 May, 2021. The Resource Person was Dr. Nimesh Gupta, Chief Vaccine Immunology Laboratory, National Institute of Immunology (NII).  
Participants-72

**Azadi Ka Amrit Mahotsava**

Commemorating 75 years of Independence


**National Institute Of Immunology**

is organising an online lecture for Miranda House (DU)

on

**‘A deep dive into the Immunology of COVID-19 vaccines’**

by



**Dr. Nimesh Gupta**  
Chief, Vaccine Immunology Laboratory, NII

on

**20<sup>th</sup> May, 2021, Thursday at 11 AM**

Meeting Link:  
<https://nii1.webex.com/nii1/j.php?MTID=m5b9fc968872031fd125bba0350bb6dc0>

Meeting number (access code): 184 496 5910

Viewing Nimesh's screen

### Vaccine Immune Response



The diagram illustrates the vaccine immune response in four stages:

- Innate Immunity:** Shows dendritic cells and macrophages.
- Transport to lymphoid tissue:** Shows the movement of cells to lymph nodes.
- Activation of adaptive immunity:** Shows the interaction between T helper cells and B cells.
- Memory:** Shows the formation of memory cells in the bone marrow and lymph nodes.

Participants (72)

Name	Status
Sudh	Online
Sukrit Shrivastava	Online
Suman Meena	Online
Tanisha K Bose	Online
Tanu Chaudhary	Online
Tapaswini Pathak	Online
TENZIN DEC	Online
Ujjala Chaudhary	Online
Ujjwal Singh	Online
Vidhi Singh	Online



# Miranda House UNIVERSITY OF DELHI

## Part B.2

### Extension Activities organized



An online Bridge Course on *Laboratory Instrumentation: Principle, Usage and Applications* was conducted from February 22-26 2021, under the aegis of IQAC for B.Sc. Hons. Zoology First year students. The course structure aimed to provide an introduction to laboratory instruments and techniques present in the Department.

Participants-39

Summer Workshop for undergraduate Science students, *Flavour 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-75

**MIRANDA HOUSE**  
University of Delhi

**Flavour of Research**  
Investigative Projects in Multidisciplinary Contexts

**Summer Workshop**  
(15 June 2021 – 31 July 2021)

**Orientation Program**  
**Date: 15 June 2021**  
11.00 am onwards

**Prerequisite: Zoom Application**  
**Join Zoom Meeting**  
<https://zoom.us/j/96444654266?pwd=L0F2dXNhVUNkYnFFU0Y3NkRHZlM3dz09>  
**Meeting ID: 964 4465 4266**  
**Passcode: Vgr91V**



# Miranda House UNIVERSITY OF DELHI

## Part B.3

Any other event organized as part of students' activities (not listed above)



A virtual Teacher's Day Celebration was done by B.Sc. (H) Zoology Students on 5 September, 2020 they dedicated the evening to appreciate the efforts by their teachers.

**Academic Orientation 2020 for B.Sc. (H) Zoology, I Year was held on November 18, 2020 virtually.** The students were introduced to the Department, the course, and the college. The teachers and other students of the department interacted with I year students.



Welcome to the  
Academic Orientation 2020  
Department of Zoology  
Miranda House

**Synapse**  
THE ZOOLOGY SOCIETY

18<sup>th</sup> November 2020, At 11:00 AM

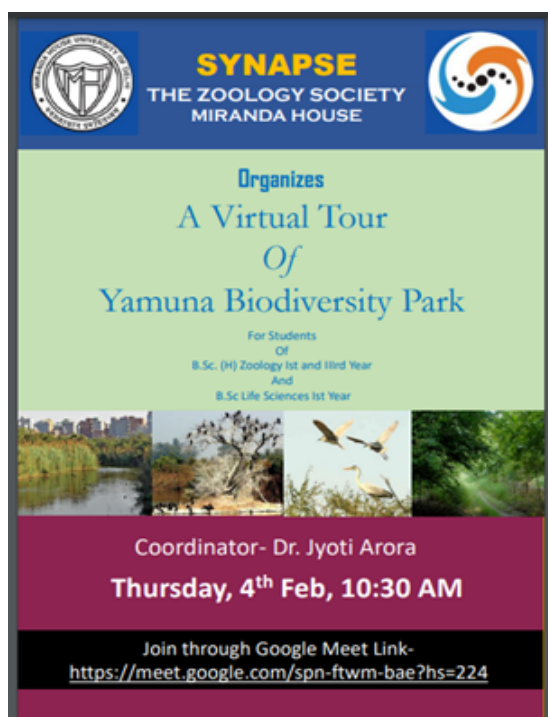
Registration link- <https://forms.gle/x3kFkVswYZYnQnyn9>

Google Meet link- <https://meet.google.com/ngr-ncca-bjm>



# Miranda House

## UNIVERSITY OF DELHI



A virtual tour of *Yamuna Biodiversity Park* for Students of B.Sc (H) Zoology I and III year, B.Sc.

**Life Sciences I Year** was organized on 4th February, 2021 was coordinated by Dr. Jyoti Arora. **Dr. Faiyaz Khudzar, Scientist-in-charge, Yamuna biodiversity park** gave the virtual tour.

The park has an assemblage of various species . Many species of grasses, herbs, aquatic plants are found here, providing habitat to variety of insects, birds, reptiles and mammals. The butterfly conservatory in

the park was also shown during the virtual tour.

Students gained knowledge about rapid urbanization and its impact on the biodiversity and insights into the science of restoration ecology.

Participants-128

A Fresher's Welcome by B.Sc. (H) Zoology II and III Year Students for students of B.Sc. (H) Zoology First year was held virtually on February 6, 2021. The evening was replete with interactive sessions, games and fun orientation activities.

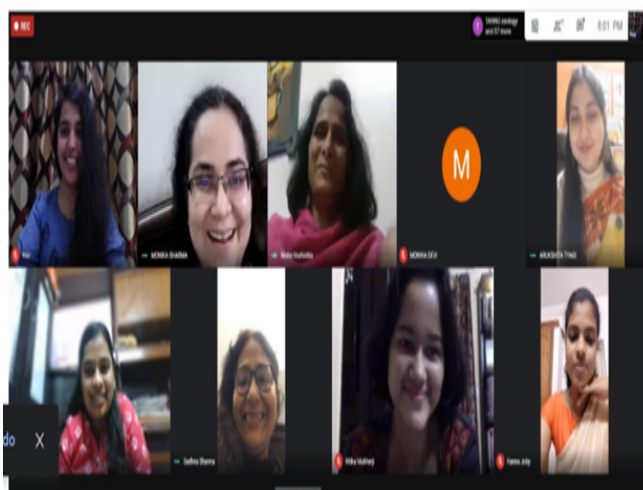




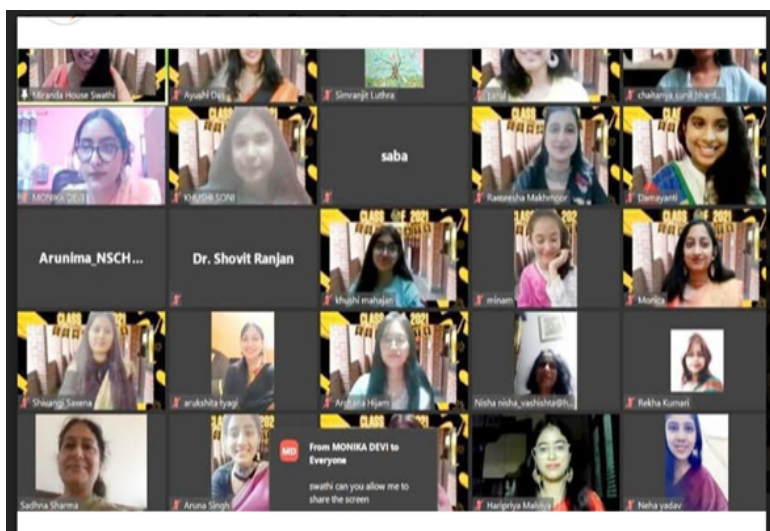


# Miranda House

## UNIVERSITY OF DELHI



A virtual farewell was organized for B.Sc. (H) Final Year by B.Sc. (H) Zoology I and II Year Students, during the nationwide lockdown due to Covid-19 pandemic. Though the celebration was not traditional, it was still joyful. The Department congratulated the outgoing batch of 2017-20, reminded them to remain dedicated to their path, share their knowledge and inspire others and appreciated the grit and resilience displayed by them during these difficult times.





# **Miranda House**

## **UNIVERSITY OF DELHI**

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