



# **Miranda House**

## **UNIVERSITY OF DELHI**

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### **Departmental Annual Report - 3**

#### **Departmental Activities: Curriculum and Beyond**

**Department: Physics**

**Year:** 2021 – 2022 (from 26.5.2021 to 30.4.2022)

**Department Society and its Office Bearers:**

<b>President</b>	<b>Vice President</b>	<b>General Secretary</b>	<b>Joint Secretary</b>	<b>Treasurer</b>
Gauri Patti	Hrudya Prasanth	Manidipa Banerjee	Ayushi Lenka	Athira C

**Staff Advisors:**

Dr. Abha Dev Habib

Professor Monika Tomar

Dr. Nisha Rani



# Miranda House UNIVERSITY OF DELHI

## Part B.1

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

**VIDYUT INVITES  
1ST YEAR STUDENTS**

**FOR DISCUSSION ON GE  
OF SEMESTER 3 & 4 WITH  
TEACHERS AND SENIORS**

**ON 10TH JULY 1:30 PM IST**

**MEETING ID: 543 828 8174**

**PASSCODE: 2H19RE**

For queries contact:  
Gauri-->91 8580443128  
Hrudya -->91 9188268473

vidyut.mirandahouse  
vidyut.physics@mirandahouse.ac.in

A counselling session was conducted for the 1st year students in an online mode on 10th July, 2021. The session aimed at providing information regarding various options they could pursue as Generic Electives (GEs) in Semester 3 and 4.

The discussion was initiated by **Dr. Abha Dev Habib** who informed the students regarding the necessity of an interdisciplinary degree and her views on choosing different subjects as our GE.

The discussion began with introducing speakers for Computer Science as GE which was addressed by **Ms. Prerna** and **Ms. Anjali** who had opted for the same GE in their 2nd year. Then seniors who took Chemistry GE: **Ms. Sakshi** and **Ms. Eishita**,

Mathematics GE: **Ms. Roopal** and **Ms. Manasvi**, Economics GE: **Ms. Jagriti** and **Ms. Ujjwal Batham** addressed us.

The discussion was then followed by queries of students on the particular GEs they wanted to inquire about and other general queries.

*No. of participants: 65*



## Miranda House UNIVERSITY OF DELHI

VIDYUT, THE PHYSICS SOCIETY  
MIRANDA HOUSE, UNIVERSITY OF DELHI

presents

**LIVE WEBINAR**  
Under the aegis of IQAC, Miranda House

on

**Intellectual Property Rights (IPR)**  
An overview for Science Professionals

by

**Dr. Sanchita Chaudhary**  
Assistant General Manager  
Biotech Consortium India Limited, Delhi

**Join Zoom Meeting**  
[https://zoom.us/j/93861454755?](https://zoom.us/j/93861454755?pwd=WjJoajNOanFKOFgzUEdVaDFBQnA3dz09)  
pwd=WjJoajNOanFKOFgzUEdVaDFBQnA3dz09  
Meeting ID: 938 6145 4755  
Passcode: PjF8vK

For more details contact:  
Gauri Patti: +91 85804 43128  
Hrudya : +91 9188268473

**Jun 8, 2021**  
**04:00 PM**

A webinar on **Intellectual Property Rights (IPR)** by **Dr. Sanchita Chaudhary**, Assistant general Manager, Biotech Consortium India Limited, Delhi was organized by Vidyut, The Physics Society, Miranda House on June 8, 2021. It was a live webinar conducted under the aegis of IQAC, Miranda House as an overview for Science Professionals on Intellectual Property Rights. The session was very informative and the speaker talked about the legal rights given to the inventor or creator to protect his invention or creation for a certain period of time. The students as well as professors interacted with the speaker and many doubts were cleared.

No. of participants: 40

A webinar on **MEMS Technology for miniaturized sensors and impact of residual stress** by **Dr. Shankar Dutta**, Scientist MEMS Division, Solid State Physics laboratory, DRDO was organized by Vidyut and DS Kothari Center, Physics Department of Miranda House on 22 July 2021.

The session was very informative and the speaker explained about MEMS being a process technology used to create tiny integrated devices or systems that combine mechanical and electrical components and how these devices (or systems) have the ability to sense, control and actuate on the micro scale, and generate effects on the macro scale.

No. of participants: 78

DS Kothari Centre,  
Physics Department

&

Vidyut, The Physics Society  
Miranda House, University of Delhi

Invite

**Dr. Shankar Dutta**  
Scientist MEMS Division  
Solid State Physics Laboratory, DRDO

to deliver a lecture on

**"MEMS Technology for Miniaturized  
Sensors and Impact of Residual Stress"**

**Date: 22nd July 2021**  
**Time: 2:30 pm**  
**Zoom Meeting Id: 825 0412 8903**  
**Passcode: ZFut70**

Live telecast at Miranda House YouTube channel  
<https://www.youtube.com/c/mirandahousedu>





## Miranda House UNIVERSITY OF DELHI

VIDYUT, THE PHYSICS SOCIETY  
MIRANDA HOUSE, UNIVERSITY OF DELHI

Presents

**LIVE WEBINAR**

On

**MATERIALS PROPERTIES FROM  
QUANTUM MECHANICAL PROPERTIES**

by  
**Dr. Pratibha Dev**  
Associate Professor  
Department of Physics and Astronomy  
Howard University, Washington DC

30th July, 2021  
6:00 pm Onwards

Join zoom meeting:  
[https://zoom.us/j/93931444087?](https://zoom.us/j/93931444087?pwd=WFVBd1czOXhISnlacXc0dHJZWtjUT09)  
[pwd=WFVBd1czOXhISnlacXc0dHJZWtjUT09](https://zoom.us/j/93931444087?pwd=WFVBd1czOXhISnlacXc0dHJZWtjUT09)

Meeting id: 93931444087  
Passcode: ggc5WG

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vidyut.physics@mirandahouse.ac.in

A webinar on **Material Properties from Quantum Mechanical Properties** was organized on 30th July, 2021.

The resource person for the seminar was **Dr. Pratibha Dev**, Associate Professor, Department of Physics and Astronomy, Howard University, Washington DC. She is an alumnus of Physics Department, Miranda House. She elucidated topics like Condensed Matter, how it is theoretical as well as experimental, how to explain and predict the properties of material using quantum theory, development of materials, 2D materials etc.

No. of participants: 75

A seminar by **Prof. Patrick Das Gupta**, Department of Physics and Astrophysics, University of Delhi was organized on 6th September, 2021. The talk was on “Stepping Stones to Einstein’s Relativity”.

The participants found the webinar very informative and showed their active participation with a number of questions asked during the session which included concepts of electromagnetic radiations, different geometries, entangled state, etc.

No. of participants: 72

VIDYUT, THE PHYSICS SOCIETY  
MIRANDA HOUSE, UNIVERSITY OF DELHI

Presents

**LIVE WEBINAR**

On

**STEPPING STONES TO EINSTEIN'S  
GENERAL RELATIVITY**

by **DR. PATRICK DAS GUPTA**  
Professor,  
Department of Physics and Astrophysics,  
University of Delhi

6th September, 2021  
11:30 am Onwards

For more details Contact:  
Gauri: 8580443128  
Hrudya: 9188268473

@vidyut.mirandahouse  
vidyut.physics@mirandahouse.ac.in

Register through the form provided below!



## Miranda House UNIVERSITY OF DELHI

The Department of Physics, Miranda House organized a webinar on the topic **MEMS- Design and Fabrication** on 25 September 2021 from 3:00 PM onwards by **Mrs. Isha Yadav**, *Scientist E, Solid State Physics Laboratory, DRDO*.

The session started with the inquisitive question “What are MEMS?” and there by explaining about different types of MEMS sensors, and their various processes, criteria to be categorized as a MEMS device like one of the components used should have a mechanical functionality and about the importance of miniaturization with different instances leading to multifunctionality of devices. The session was very interactive with active participation of audience with different queries related to process.

*No. of participants: 54*



VIDYUT, THE PHYSICS SOCIETY  
MIRANDA HOUSE, UNIVERSITY OF DELHI  
*Presents*  
**LIVE WEBINAR**  
*On*  
**MEMS DEVICES: DESIGNS & FABRICATION**  
*by* **DR. ISHA YADAV**  
Scientist E,  
SOLID STATE PHYSICS LABORATORY, DRDO  
**25th September, 2021**  
**3:00 Pm Onwards**  
**For more details Contact:**  
Gauri: 8580443128  
Hrudya: 9188268473  
Register through the form provided below!  
@vidyut.mirandahouse | vidyut.physics@mirandahouse.ac.in



**Discover Cosmic Rays**  
**INTERNATIONAL COSMIC DAY** 10 YEARS  
November 10 | 2021  
9:00 UTC  
14:30 IST  
Cosmic particles, these unnoticed particles that surround us all the time, are the focus of this day. Students, teachers and scientists get together to talk and learn about Cosmic Rays and answer questions like:  
What are cosmic particles?  
Where do they come from?  
How can they be measured?  
And what can we learn from them?  
Become a Scientist for a Day  
Discover the world of cosmic rays like an astroparticle physicist.  
**Organizer:**  
DS Kothari Centre for Research and innovation in Science Education,  
VIDYUT, The Physics Society  
Miranda House, University of Delhi  
More Information : <https://icd.desy.de>  
Logos: DESY, Fermilab, Quarknet, etc.

On **International Cosmic Day ICD**, more than *60 institutions* such as schools, universities, and research institutes in over *13 countries* participate to perform experiments on cosmic particles.

The D.S. Kothari Center for Research and Innovation in Science Education, Miranda House in collaboration with Vidyut, The Physics Society of Miranda House, University of Delhi provided the students with the opportunity to get involved in performing experiments on cosmic particles with the help of Quarknet and Cosmic Ray Muon Detector and the students from **Miranda House participated** in the video conference **organized by DESY, Germany** (10/11/2021, 6:30 PM onwards) on the occasion of International Cosmic Day Event and discussed the results of their experiments with other participants around the world.

*Number of participants: 12*





## Miranda House UNIVERSITY OF DELHI

VIDYUT, THE PHYSICS SOCIETY  
MIRANDA HOUSE, UNIVERSITY OF DELHI

Presents  
**LIVE WEBINAR**

\* DSKC Project \*

**COSMIC RAY MUON DETECTOR & EQUILIBRIUM TIDAL THEORY**

by **Ms. SHIVANI YADAV**  
Alumni of Miranda House (Batch 2020)  
M.Sc. Physics, JNU, Delhi

**19th November, 2021  
5:00 Pm Onwards**

Register through the form provided below!

For more details Contact:  
Gauri: 8580443128  
Hrudya: 9188268473

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A webinar on “**Cosmic Ray Muon Detector and Equilibrium Tidal Theory**” was organized by Vidyut, The Physics Society, Miranda House on 19th November, 2021.

The resource person for the seminar was **Ms. Shivani Yadav**, Alumni of Miranda House (2020), pursuing post-graduation in JNU, Delhi. She elucidated the topics like Cosmic rays, how Earth's atmosphere affects the rate of muon flux, and various analyses regarding cosmic muon rate. After that she answered student's queries.

No. of participants: 100

A workshop on “**Python Programming**” was conducted by **Ms. Rashmi Sarwal**, 3rd year student, B.Sc. Physical science with computer science on 10.1.2022 and 15.1.2022.

The workshop was carried over a span of a month every weekend. The workshop helped students to get equipped with python packages of matplotlib, pandas and more.

No. of participants: 10

VIDYUT, The Physics Society  
Miranda House, University Of Delhi

Presents  
**WORKSHOP ON PYTHON PROGRAMMING**

BY **MS. RASHMI SARWAL**  
3RD YEAR STUDENT,  
BSC. PHYSICAL SCIENCE WITH COMPUTER SCIENCE  
MIRANDA HOUSE, UNIVERSITY OF DELHI

Open only for Students of Miranda House

6:00 pm Onwards | 10th & 15th January 2022 | Live Webinar

For more details contact:  
Gauri: 8580443128  
Hrudya: 9188268473

@vidyut.mirandahouse | vidyut.physics@mirandahouse.ac.in



## Miranda House UNIVERSITY OF DELHI

VIDYUT, The Physics Society  
Miranda House, University Of Delhi

Presents

WEBINAR ON  
**CLOCK**

BY  
**DR. POORNENDU CHATURVEDI**  
SCIENTIST F  
HEAD OF CENTRE FOR ADVANCED  
SEMICONDUCTOR TECHNOLOGY  
SOLID STATE PHYSICS LABORATORY  
DRDO

15 JANUARY, 2022  
4 PM ONWARDS

@vidyut.mirandahouse | vidyut.physics@mirandahouse.ac.in

The webinar was conducted on 15th January, 2022 from 4 P.M. onwards. **Dr. Poornendu Chaturvedi**, *Scientist F, Solid State Physics Laboratory, DRDO* addressed us. He began by asking students what they interpreted by a second, time and other terms that we use in our day-to-day life. He made us understand the basic concepts of different time measurements and then he introduced us to the concepts of miniature clocks. He explained their embedded structure and how they are sandwiched. The concept was beautifully explained on how they are of importance to the army.

*No. of participants: 58*

Vidyut, The Physics Society  
Miranda House, University of Delhi

PRESENTS

**Stress Management:  
Tips & Tricks**

by  
**Renu Sachdeva**  
Integrative Psychotherapist,  
Life Skills Trainer,  
Prism Counselling

28th January, 2022  
5 - 7 PM  
Zoom

Open only for  
students of Physics  
Department

Register through form given below!

@vidyut.mirandahouse | vidyut.physics@mirandahouse.ac.in | @Vidyut\_Mh | Vidyut-The Physics Society

A webinar on Stress Management was conducted on 28th January, 2022. The resource persons were: **Mrs. Renu Sachdeva** and **Ms. Pompi Sharma** (*Prism Counseling*).

They began by introducing the psychological meaning of stress and how they express it. Further, they told us 10 ways to cope with our stress. The session was very interactive and students actively participated and conveyed their feelings towards different methods they were asking students to perform.

*No. of participants: 40*



# Miranda House

## UNIVERSITY OF DELHI

Vidyut, The Physics Society  
Miranda House, University of Delhi

Presents  
On the Occasion of

INTERNATIONAL DAY FOR WOMEN AND GIRLS IN SCIENCE

# THE PLASMA UNIVERSE

by  
**Dr. Pallavi Bhat**  
Assistant Professor  
ICTS, TIFR, Bengaluru

11 FEB 2022 05:30 PM

In Case of queries, contact:  
Cauri : +91 85804 43128  
Hrudya : +91 91882 68473

Register through form given below!

@vidyut.mirandahouse | vidyut.physics@mirandahouse.ac.in | @Vidyut\_Mh | Vidyut - The Physics Society

## ABOUT THE SPEAKER

She's an astrophysicist who works on the aspects of fluid dynamics and plasma physics. Currently an Assistant Professor at ICTS-TIFR, Bengaluru.



She has previously worked as a post doctoral researcher at University of Leeds, MIT and Princeton. She obtained her PhD from IUCAA, Pune. An year ago, she initiated a forum for women working on astrophysical fluids and plasmas comprising international women researchers around the world.


A webinar on “**The Plasma Universe**” was organized on the occasion of the International Day for Women and Girls in Science. Our keynote speaker was **Dr. Pallavi Bhat**, *Assistant Professor, ICTS, TIFR, Bengaluru*. She talked about the astrophysical concepts of plasma and about her current research work. In the end she introduced us to the forum she has established during the pandemic for women in plasma astrophysics.

*No. of participants: 50*






# Miranda House UNIVERSITY OF DELHI




VIDYUT, The Physics Society  
Miranda House, University Of Delhi




## WORKSHOP on EXPERIMENTS in Curriculum

**Experiment Coordinators:**


- Thermal Physics:  
*Dr Rashmi Rakshit and Dr Ambuja Jaiswal*
- Digital Systems and Applications:  
*Prof Monika Tomar and Dr Geeta Rani*
- Electricity and Magnetism:  
*Dr Abha Dev Habib and Dr Divakar Pathak*
- Mechanics:  
*Dr Bilasini Devi Naorem and Dr Nisha Rani*



**From**  
16th - 25th Feb, 2022



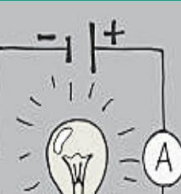

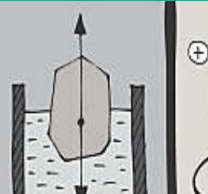

**Time:**  
1:00 PM to 4PM



**Venue:**  
Physics Lab, Miranda House

Open only for students of 2nd year, B.Sc. Physics Hons  
and BSc. Physical Sciences, Miranda House students

For more details contact:  
Gauri: +91 8580443128  
Hrudya: +91 9188268473



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A workshop, “**Experiments in Curriculum**”, was conducted from 16th-25th February, 2022 to give hands-on experience to students. The workshop covered experiments listed under Thermal Physics, Digital Systems, Electricity and Magnetism and Mechanics.

**Thermal Physics** experiments were coordinated by Dr. Rashmi Rakshit and Dr. Ambuja Jaiswal, **Digital Systems and Applications** experiments were conducted by Prof. Monika Tomar and Dr. Geeta Rani, **Electricity and Magnetism** experiments were conducted by Dr. Abha Dev Habib and Dr. Divakar Pathak and **Mechanics** experiments were conducted by Dr. Bilasini Devi and Dr. Nisha Rani.

It was a learning experience for the students as they could finally perform experiments hands on after the pandemic.

*No. of participants: 60*



## Miranda House UNIVERSITY OF DELHI

On 13th October 2021, the first discussion session under the series **Research Board, Vidyut** was hosted.

Students from the Physics Department enthusiastically participated in the discussion: **"What makes a planet a planet? Qualifying characteristics of a planet. The cloud of confusion around pluto"**.

The webinar started at 5:30 pm on zoom with the introduction. All the participants put their comments on the topic and discussed the characteristics of Planets and why Pluto is not considered a planet.

No. of participants: 20



The second discussion session under the Research Board, Vidyut was held on 9th January 2022 at 2:10 pm.

Discussion was based on **"Which is the dominant force in nature? Strong nuclear force or weak nuclear force? Does a strong nuclear force overtake other fundamental forces?"**

Research board heads and participants shared their views and discussion went on well.

No. of participants: 30



## Miranda House UNIVERSITY OF DELHI

The poster is for a National Science Day event. It features a pink background with white circles containing text. At the top left is a logo for 'VIDYUT' with a lightning bolt. At the top right is the Miranda House University of Delhi logo. The central text reads: 'Research Board', 'Vidyut, The Physics Society', 'Miranda House', 'PRESENTS', 'On the occasion of', 'National Science Day'. To the left, it says 'OPEN FOR ALL MIRANDIANS! Join the whatsapp group through link below'. To the right, it lists 'DATE: 28-02-2022', 'TIME: 4:30 PM onwards', and 'VENUE: Room no. 145'. At the bottom, it says 'An exciting discussion session on', '"Neutron stars, Pulsars, Quasars, Stellar Astrophysics"', 'Was the universe made, or did it just happen?', and 'What is the role of infinity in cosmology?'. At the bottom right, it says 'Reach us at-' followed by '@ vidyut.mirandahouse' and '✉ vidyut.physics@mirandahouse.ac.in'.

Research Board  
Vidyut, The Physics Society  
Miranda House  
**PRESENTS**  
On the occasion of  
**National Science Day**

OPEN FOR ALL  
MIRANDIANS!  
Join the whatsapp  
group through link  
below

**DATE:**  
28-02-2022  
**TIME:**  
4:30 PM onwards  
**VENUE:**  
Room no. 145

An exciting discussion  
session on  
**"Neutron stars, Pulsars, Quasars,  
Stellar Astrophysics"**  
**Was the universe made, or did it just happen?**  
**What is the role of infinity in cosmology?**

Reach us at-  
@ vidyut.mirandahouse  
✉ vidyut.physics@mirandahouse.ac.in

The discussion, under the series Research Board, Vidyut, was conducted on the day of *National Science Day* in offline mode amongst students.

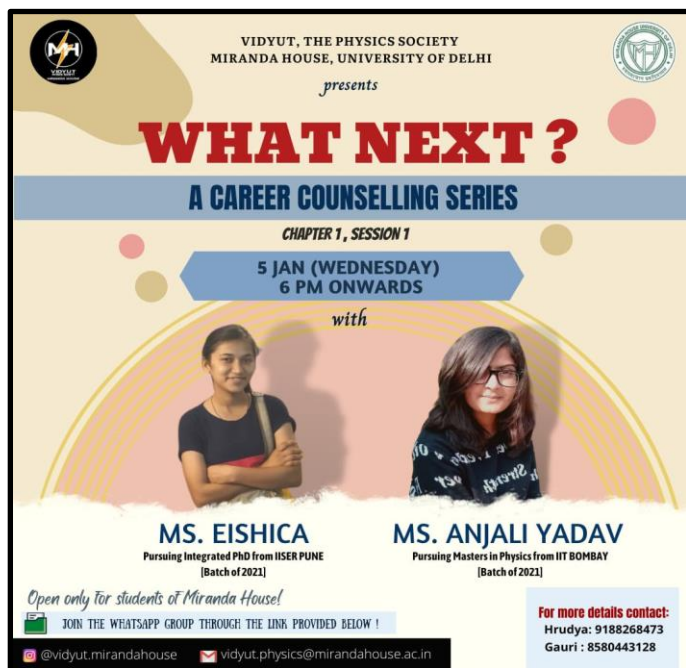
The session was held by **Ms. Roopal Bansal** (3rd year undergraduate). She began by asking about what all knew about the terms mentioned. The discussion further was led by her by introducing all the participants with different concepts of them. It was an insightful and refreshing experience for all the participants. The session was concluded with a vote of thanks by the office bearer.

*No. of participants: 10*





## Miranda House UNIVERSITY OF DELHI



Chapter 1, Session one of the Career Counseling Series “What Next” was on 5th January 2022 at 6:00 pm to 7pm.

Speakers included **Ms. Eishica**, who is pursuing *integrated Ph.D. from IISER Pune* and **Ms. Anjali Yadav**, who is pursuing *masters in Physics from IIT Bombay*.

Speakers were enthusiastic and handled the session with high spirits. They gave information on various entrance examinations like jam jest etc. They also shared their experience of preparing for entrance examinations. Students came up with their doubts on the duration of studies, books that must be referred to and more.

No. of participants: 60

Chapter 1, Session 2 of the Career Counseling Series “What Next?” was on 7th January 2022 at 6:00 pm to 7pm.

Speakers included former students - **Ms. Jasmine Chikkara**, who is pursuing *integrated PhD at TIFR, Mumbai* and **Ms. Seema Chahal**, who is pursuing *masters in Physics at Harish Chandra Research Institute*.

No. of participants: 60





## Miranda House UNIVERSITY OF DELHI



*Chapter 1, Session 3* of Career Counseling Series “What Next?” was held on 8th January 2022 at 6:00 pm to 7 pm.

As speaker, **Ms. Aditi**, who is pursuing *integrated Ph.D. at IISc Bangalore*, gave vital information on various entrance examinations like JAM, JEST etc. She also shared her experiences of preparing for entrance examinations and explained how she cleared her interviews and tests. The session was very informative and inspiring.

*No. of participants: 60*



*Chapter 2, Session 1* of the Career Counseling Series “What Next?” was held on 12th January 2022 at 6:00 pm to 7 pm.

Speaker was **Ms. Jagrati** who is pursuing *masters in fashion management from NIFT, Delhi*.

*No. of participants: 20*



## Miranda House UNIVERSITY OF DELHI

VIDYUT, THE PHYSICS SOCIETY  
MIRANDA HOUSE, UNIVERSITY OF DELHI  
*presents*

# WHAT NEXT?

## A CAREER COUNSELING SERIES

CHAPTER 2, SESSION 2

13 JAN (THURSDAY)  
5 PM ONWARDS

with

**Ms. MANYA JHA**  
Pursuing MBA from Indian Institute of Management, Kozhikode  
(Miranda House Batch of 2020)

Open only for students of Miranda House!

JOIN THE WHATSAPP GROUP THROUGH THE LINK PROVIDED BELOW !

@vidyut.mirandahouse vidyut.physics@mirandahouse.ac.in

For more details contact:  
Hrudya:  
Gauri :

*Chapter 2, Session 2* of the Career Counseling Series “What Next” was held on 13th January 2022 at 6:00 pm to 7 pm.

Speaker was **Ms. Manya Jha** who is pursuing MBA from IIM, Kozhikode.

*No. of participants: 31*

VIDYUT, THE PHYSICS SOCIETY  
MIRANDA HOUSE, UNIVERSITY OF DELHI  
*presents*

# WHAT NEXT?

## A CAREER COUNSELING SERIES

CHAPTER 3, SESSION 1

15 JAN (SATURDAY)  
6:30 PM ONWARDS

with

**Ms. SUPRIYA SINHA**  
PhD student at DESY, Germany currently working on experimental particle physics analysis in ATLAS group  
Masters from University of Bonn, Germany (Miranda House Batch of 2017)

Open only for students of Miranda House!

JOIN THE WHATSAPP GROUP THROUGH THE LINK PROVIDED BELOW !

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For more details contact:  
Hrudya: 9188268473  
Gauri : 8580443128

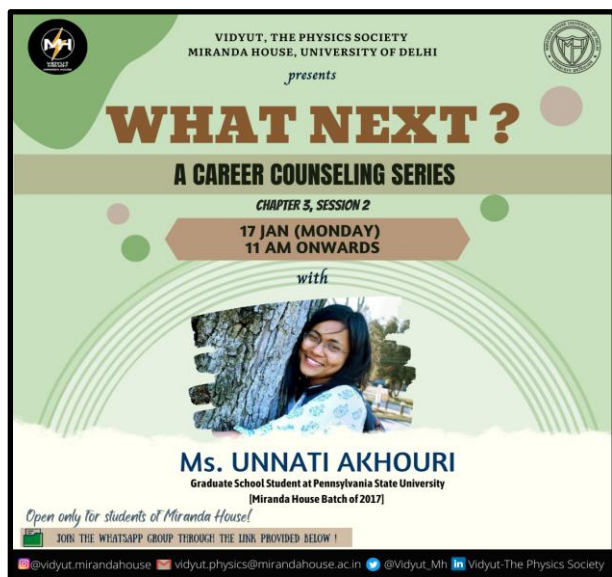
*Chapter 3, Session 1* of the Career Counseling Series “What Next” was held on 15th January 2022 at 6:30 pm. **Ms. Supriya Sinha**, who is currently pursuing her PhD from DESY, Germany, after completing Masters in Physics from Bonn University, Germany talked about career in Physics.

*No. of participants: 40*





## Miranda House UNIVERSITY OF DELHI



Chapter 3, Session 2 of the Career Counseling Series "What Next?" was held on 17th January 2022 at 11 am onwards.

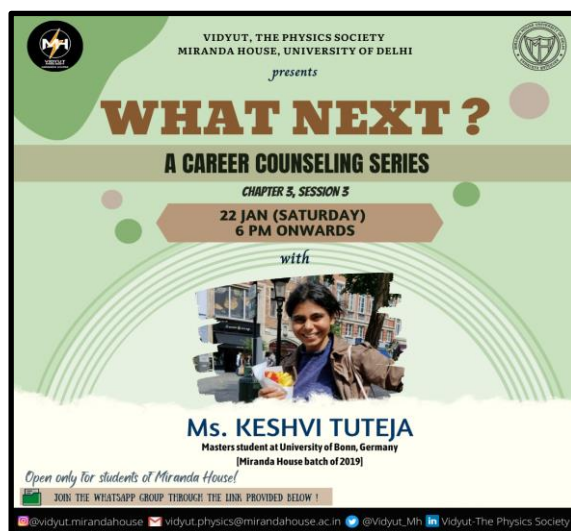
The speaker was **Ms. Unnati Akhouri** who is a graduate school student at Pennsylvania State university.

No. of participants: 40

Chapter 3, Session 3 of the Career Counseling Series "What Next?" was held on 22nd January 2022 at 6 pm onwards.

Speaker was **Ms. Keshvi Tuteja** who currently pursuing Masters at University of Bonn, Germany.

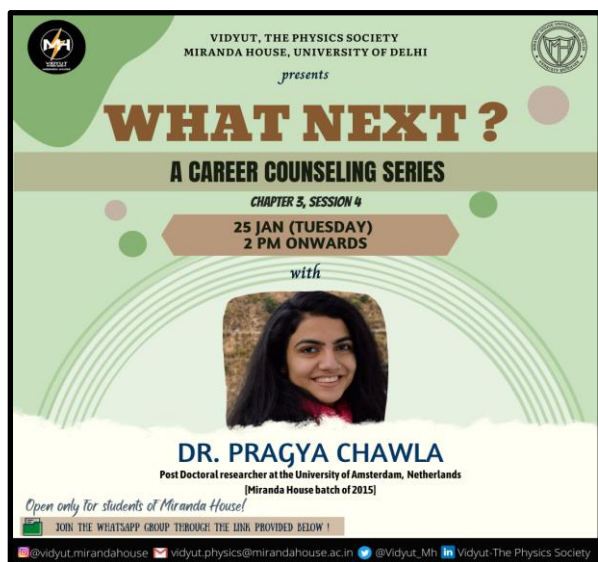
No. of participants: 40



Chapter 3, Session 4 of the Career Counseling Series "What Next?" was held on 25th January 2022 at 2:00 PM onwards.

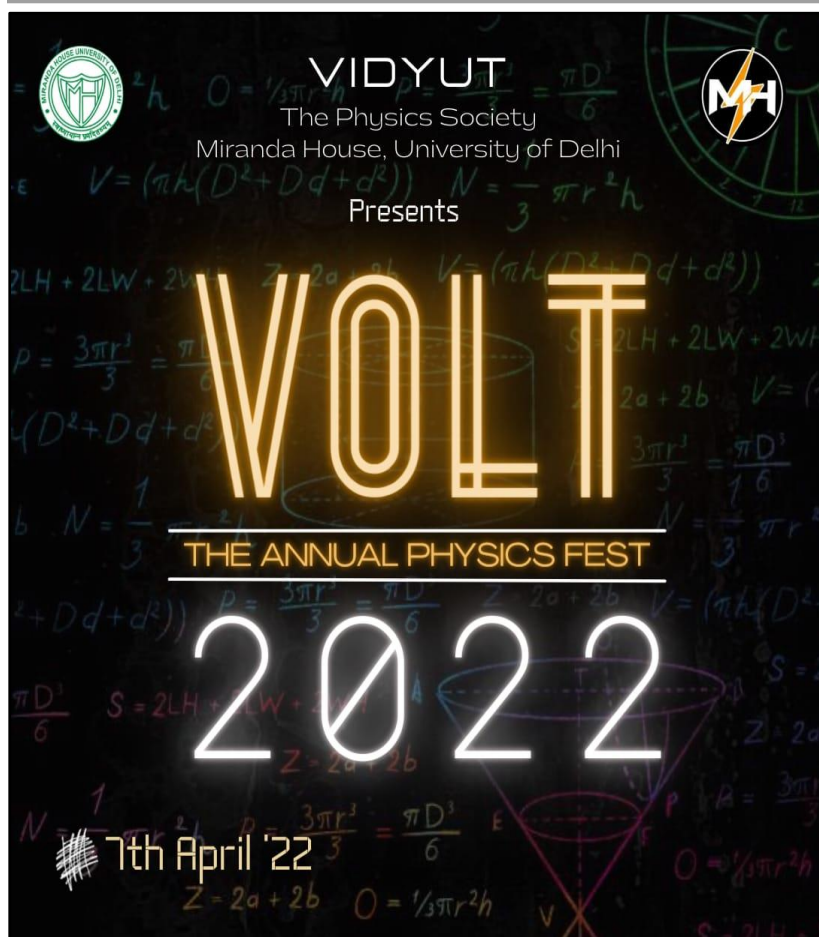
**Dr. Pragya Chawla**, who is a postdoctoral research fellow at University of Amsterdam, Netherland, talked about career in research.

No. of participants: 40





# Miranda House UNIVERSITY OF DELHI



The Annual Physics, **Volt**, was conducted on 7th April, 2022.

The event began with a talk by **Dr. Tanvi Karwal**, *postdoctoral researcher at University of Pennsylvania* on “**Why is Hubble making astrophysicists tense?**”.

The fest was further continued by conducting competitions, paper presentation, poster presentation, circuit designing and marvel trivia.

*No. of participants: 100*

 <p><b>VIDYUT</b> The Physics Society Miranda House, University of Delhi</p> <p><b>VOLT' 22</b> The Annual Physics Fest</p> <p>Seminar On: <b>Why Is Hubble making Astrophysicists tense?</b></p> <p><small>How fast is the universe expanding? This is one of the most fundamental questions we can ask about our universe. Cosmologists can determine the answer using a few different techniques, but these answers don't match, giving rise to the most intriguing inconsistency in cosmology today - "the Hubble tension".</small></p> <p> <b>7th April '22</b> 10:30 AM Onwards</p> <p> <b>Room No.: 260</b> Miranda House</p> <p><b>DR. TANVI KARWAL</b> POST DOCTORAL RESEARCHER AT CENTRE FOR PARTICLE COSMOLOGY, UNIVERSITY OF PENNSYLVANIA</p> <p>Register through the link provided below!!</p>	 <p>OPEN FOR ALL</p> 	<p><b>ABOUT THE SPEAKER</b></p> <p>DR. TANVI KARWAL IS A THEORETICAL COSMOLOGIST WHO LOVES DATA. SHE DESCRIBES HER RESEARCH AS PHENOMENOLOGICAL COSMOLOGY, IS THE PIONEER OF THE EARLY DARK ENERGY MODEL AND AN EXPERT ON THEORETICAL SOLUTIONS TO THE HUBBLE TENSION AND COSMIC-MICROWAVE-BACKGROUND COSMOLOGY.</p> <p>HER RESEARCH PURSUES THE BROAD QUESTIONS: WHAT IS THE UNIVERSE MADE OF?; AND HOW DID THE UNIVERSE EVOLVE TO TODAY? DR. KARWAL BEGAN HER STUDIES WITH A BSc. PHYSICS HONOURS FROM MIRANDA HOUSE COLLEGE, DELHI UNIVERSITY. SHE EARNED HER PHD IN 2019 WORKING WITH PROF. MARC KAMIONKOWSKI AT JOHNS HOPKINS UNIVERSITY AND IS NOW A POSTDOCTORAL RESEARCHER AT THE UNIVERSITY OF PENNSYLVANIA IN THE CENTRE FOR PARTICLE COSMOLOGY.</p>
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# Miranda House UNIVERSITY OF DELHI

VIDYUT  
The Physics Society  
Miranda House, University of Delhi  
Presents

**VOLT'22**  
The Annual Physics Fest

**07 April, 2022**

**CIRCUIT DESIGNING  
COMPETITION**

Construct a physics model/ experiment using the instruments provided to you.

**12:30 PM ONWARDS**

**Room No. 265**

CERTIFICATES & EXCITING PRIZES

Register through the link provided below!!

OPEN FOR ALL

VIDYUT  
The Physics Society  
Miranda House, University of Delhi

**VOLT'22**  
The Annual Physics Fest

**POSTER  
PRESENTATION  
COMPETITION**

PRESENTATION OF YOUR OWN WORK/ REVIEW OF SOME WORK

**7th April '22  
12:30 PM Onwards**

**Room No.: 264  
Miranda House**

OPEN FOR ALL

CERTIFICATES & EXCITING PRIZES

Register through the link provided below!!

VIDYUT  
The Physics Society  
Miranda House, University of Delhi

**VOLT'22**  
The Annual Physics Fest

**MARVEL  
TRIVIA**

**07 April, 2022**

**Room No.: 265  
Miranda House**

**3:30 PM  
Onwards**

CERTIFICATES & EXCITING PRIZES

Register through the link provided below!!

OPEN FOR ALL

VIDYUT  
The Physics Society  
Miranda House, University of Delhi

**VOLT'22**  
The Annual Physics Fest

**MEME MAKING  
COMPETITION**

=> Confined to the topics of physics

**Deadline for submission: 5 April, 2022**

**Winners to be declared tentatively by: 7 April, 2022**

Certificates & Exciting prizes

Open FOR ALL





# 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 from **15 June to 31 July 2021**.

Participation: 16 faculty members of the Physics Department mentored 47 Summer Projects. Out of 125 undergraduate students who successfully worked on projects, 45 students were from other institutions.



## 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=L0F2dXNhVUNkYnFFU0Y3NkRHZ1M3dz09>  
**Meeting ID: 964 4465 4266**  
**Passcode: Vgr91V**

For further details see:

<https://mirandahouse.ac.in/uploads/dskc/summerworkshop/2021%20DSKC%20Summer%20Workshop%20Report.pdf>



## Miranda House UNIVERSITY OF DELHI

### Part B.3

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

A farewell was conducted on **May 29, 2021** for the **graduating seniors**. The online celebration was vibrant and consisted of a personal touch.

Various games were played online by students and teachers. The atmosphere was filled with joy and the longing of graduating without meeting each other in person. Due to the second wave, the circumstances were like that but each one of them took away great memories from the online celebration as well. Over 100 participants were in the farewell. It ended with some sweet notes of goodbye from the teachers and the seniors. They shared their experiences and gratitude towards the institution they were a part of and how they have evolved as a person over the past 3 years. They even share some memories they created while studying in online mode as well.

*No. of participants: 130*





## Miranda House UNIVERSITY OF DELHI



Students of Physics Department organized an online event on the occasion of **Teachers Day, 5th September, 2021**, which is also known as the birthday of Dr Sarvepalli Radhakrishnan.

The event was held in an online mode. Many cultural programs and games were also presented by the students. In the end, all the students thanked all the teachers for their constant mentoring.

*No. of participants: 75*



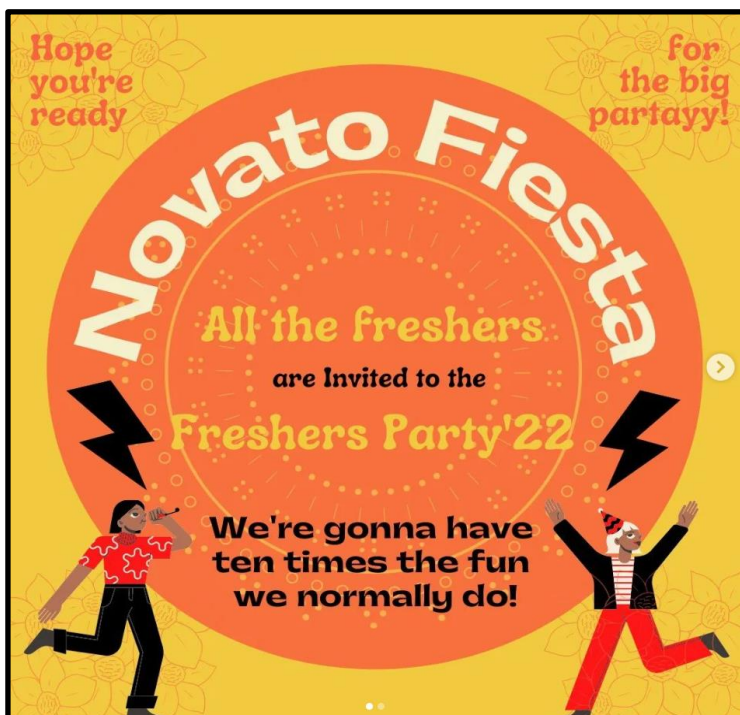
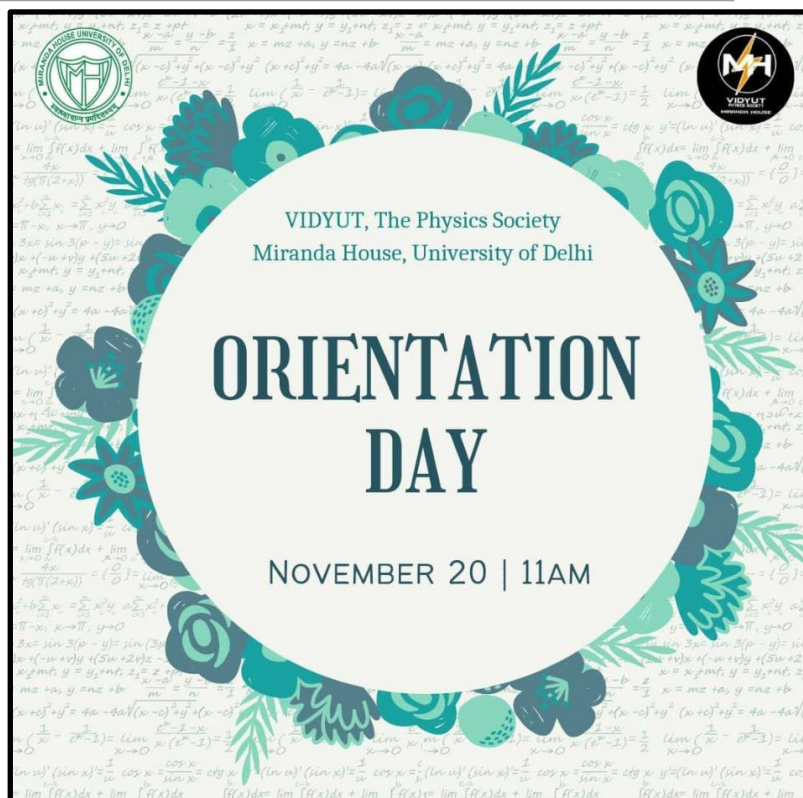


## Miranda House UNIVERSITY OF DELHI

**An Orientation Programme for the newly admitted students was held on 20th November, 2021.**

The major objective of the programme was to introduce students to all the teachers of the Department, make the students aware of the Physics Society of which they are by default members, to give them a brief idea of the departmental activities, help them to understand the timetable, etc. In short, this meeting was a brief introduction to the department.

*No. of participants: 180*



The freshers were welcomed by the Department and 2nd year students on **7th February, 2022.**

The event was conducted online and students played games and some competitions were conducted in a virtual mode.

*No. of participants: 150*