



# Miranda House

## UNIVERSITY OF DELHI

### Departmental Annual Report - 3

#### Departmental Activities: Curriculum and Beyond

Department: Mathematics

Year: 2024-2025

Department Society and its Office Bearers:

Sankhya, Society of Department of Mathematics	
President	Jasbina Quadri
Vice-President	Kusum Devrath
General Secretary	Naavya Arya
Treasurer	Sakshi Jangra

Staff Advisors:

Teacher-in-Charge: Dr. Bhawna Bansal

Staff Advisors: Prof. Sunila Sharma, Dr. Rekha Gupta, Dr. Sneha Mavi, Mohd. Sarik Idrisi

#### Part B.1

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

1. The Department of Mathematics, Miranda House, started off the academic year by conducting a **Capacity Building Training Program on Mathematical Statistics** from 31st August to 7th September, 2024, featuring **Dr. Niteesh Sahni, Associate Professor at Shiv Nadar University, as the speaker**. The program engaged 29 participants, including both teachers and students, in discussions on statistical methods, regression analysis, and probability distributions. The primary objective was to strengthen participants' conceptual understanding and analytical skills in mathematical statistics through interactive sessions.



# Miranda House UNIVERSITY OF DELHI

The Department of Mathematics  
Miranda House  
In collaboration with  
IQAC - MIRANDA HOUSE  
presents

A week long capacity building training programme on  
**MATHEMATICAL STATISTICS WITH A COMPUTATIONAL PERSPECTIVE**

**Dr. NITEESH SAHNI**  
Associate Professor  
Department of Mathematics  
Shiv Nadar University

31 Aug - 7 Sept 2024  
6:00 pm onwards  
Online

PAID WORKSHOP  
AMOUNT TO BE PAID: ₹2000

For more queries, contact:

**PATRON**  
Prof. [Dr.] Bijaylaxmi Nanda  
Principal, Miranda House

Dr. Jyoti Talwar (Convenor)  
+91 9540223402  
Prof. [Dr.] Monika Arora (Coordinator)  
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Ms. Apaksha (Coordinator)  
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Joabina Quadri (President)  
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Kusum Devnath (Vice-President)  
+91 8079032924

- On 20th September 2024, the Department organised an engaging and insightful workshop on **Actuarial Science-powered by AI and Technology** led by **Ms. Shivangee Agarwal**, an Associate Member of the Institute and Faculty of Actuaries (IFoA), UK, and a postgraduate in Statistics.

**SANKHYA**  
THE SOCIETY OF DEPARTMENT OF MATHEMATICS  
MIRANDA HOUSE  
PRESENTS

**ACTUARIAL SCIENCE**  
Actuarial excellence powered by AI & Technology

FRIDAY, 20 SEPTEMBER  
1 PM ONWARDS  
MATHEMATICS LAB 319

**Shivangee Agarwal**  
Qualified Actuary | Master's in Data and Business Analytics (IIM Indore)  
AIR 1 in CT7 (Business economics)  
B.Com (Hons, Finance) - St. Xavier's Kolkata  
Expertise : Excel, R Programming

For more queries contact:

Joabina Quadri (President)  
8233509026  
Kusum Devnath (Vice President)  
8079032924

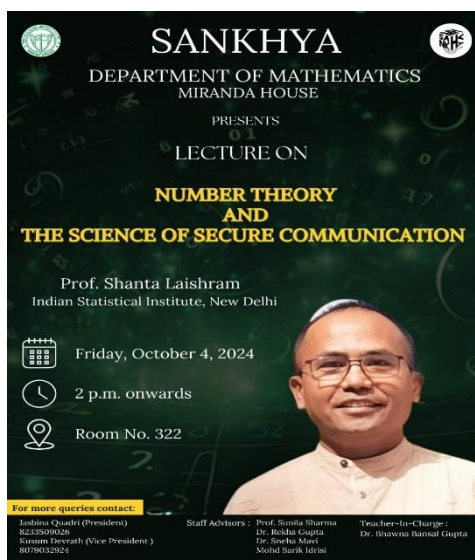
Staff Advisers : Prof. Sunila Sharma  
Dr. Retha Gupta  
Ms. Sneha Mori  
Mohit Sarki Idissi

Teacher-in-Charge :  
Dr. Bhavna Bansal Gupta

- We also hosted a special lecture on **Number Theory and Cryptography** by **Professor Shanta Laishram** from the Indian Statistical Institute, New Delhi, on 4th October 2024.



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4. We also organised an insightful seminar titled “**Decoding UPSC**” in collaboration with KSG IAS on 23rd October 2024. The seminar featured two distinguished **speakers—Mr. Rashid Yasin and Mr. Kapil Dutta—both well-known for mentoring Civil Services aspirants.**



5. The department conducted an inter-college quiz competition titled “**MathSpire**” on Saturday, 21st December in lieu of **National Mathematics Day**, which is celebrated every year on the 22nd December to mark the birth anniversary of the Indian Mathematician, **Srinivasa Ramanujan Aiyangar**. The event aimed to foster mathematical skills, critical

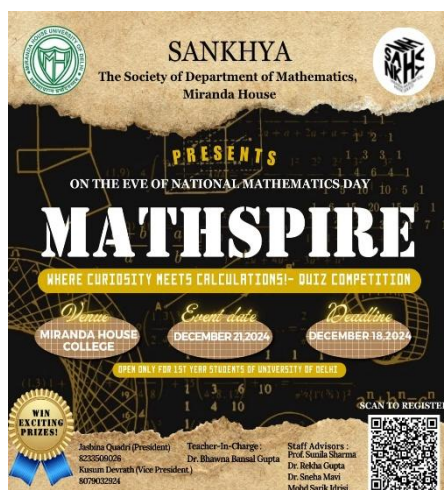


# Miranda House UNIVERSITY OF DELHI

thinking and problem solving abilities while encouraging healthy competition among the young mathematics enthusiasts. The quiz was conducted in a multiple-choice format consisting of three sections from key mathematical domains, namely:

- Real Analysis and Algebra
- Logical and Mathematical Reasoning
- Probability and Statistics

With 50 registration, Mathspire marked a strong turnout. The first position was bagged by Dhruv Maheshwari, Sri Guru Tegh Bahadur College. Followed by Krishna Dutt Dubey, Hindu College securing the second place. The third position was secured by Alivia Dutta, Miranda House. The winners were felicitated with certificates.



6. A lecture on Real Analysis, titled “**Study Real Analysis the Real Way**”, was held on February 25, 2025. **Dr. H Ananthnarayan, Assistant Professor of**

**Mathematics at IIT Bombay**, graced the lecture as its speaker. He left a significant impact on every student who attended the lecture, making them look at the vast and somewhat daunting field of Real Analysis as intriguing and more welcoming than before.



# Miranda House UNIVERSITY OF DELHI

**SANKHYA**  
The Department of Mathematics  
Miranda House

In Collaboration with  
IQAC - Miranda House

LECTURE ON  
**Study  
Real Analysis  
The Real Way**

**H. Ananthnarayan**  
Department of Mathematics, IIT Bombay

Room no 322 25 Feb 2025 1 P.M Onwards

For more queries contact:

<b>Patron:</b> Prof (Dr). Bijayalaxmi Nanda Principal Miranda House	<b>Teacher-In-Charge:</b> Dr. Bhawna Bansal Gupta	<b>Organising Committee</b> Prof. Sunila Sharma Dr. Rekha Gupta Dr. Shweta Gaurshi Dr. Sneha Mani Mohd. Sarik Idreesi	<b>Organising Committee</b> Jashmina Quraishi 82335 09026 (President) Kusum Devnath 80790 32924 (Vice President)
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7. On the morning of **ORIGIN'25**, the Annual Mathematics Departmental Fest, February 28, 2025, from 9:30 to 10:30 AM, a thought-provoking and interactive lecture was held by **Prof. Rashmi Bhardwaj**, Head of GGSIPU's Nonlinear Dynamics Lab, titled **“Bridging the Digital Divide through Gender Lenses”**. She emphasized the need for diversity in STEM, sharing inspiring anecdotes about Ada Lovelace and Grace Hopper, and advocated for a level playing field in the digital age. The session motivated attendees to address gender disparities in technology and pursue inclusive innovation.

**SANKHYA**  
The Society of Department of Mathematics  
In Collaboration with  
IQAC - MIRANDA HOUSE

On the occasion of  
**NATIONAL SCIENCE  
DAY & ORIGIN'25**  
Presents a lecture on the topic

**BRIDGING THE  
GAP IN STEM**

**PROFESSOR  
RASHMI BHARDWAJ**

Fellow of FIMA (UK)  
& FISMMACS  
(India),  
Head, Nonlinear  
Dynamics Research  
Lab, Department of  
Mathematics,  
GGSIPU, Delhi

Open to all students

28 Feb 2025 9:00-10:30 AM MINI AUDITORIUM

**Patron:**  
Prof (Dr). Bijayalaxmi Nanda  
Principal  
Miranda House

**Organising Committee**  
Dr. Bhawna Bansal Gupta (TIC)  
Prof. Sunila Sharma  
Dr. Rekha Gupta  
Dr. Shweta Mani  
Mohd. Sarik Idreesi

**Organising Committee**  
Jashmina Quraishi  
82335 09026  
(President)  
Kusum Devnath  
80790 32924  
(Vice President)

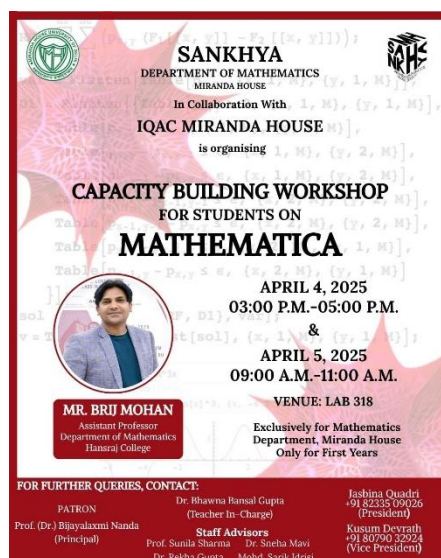
**Register Now:**





## Miranda House UNIVERSITY OF DELHI

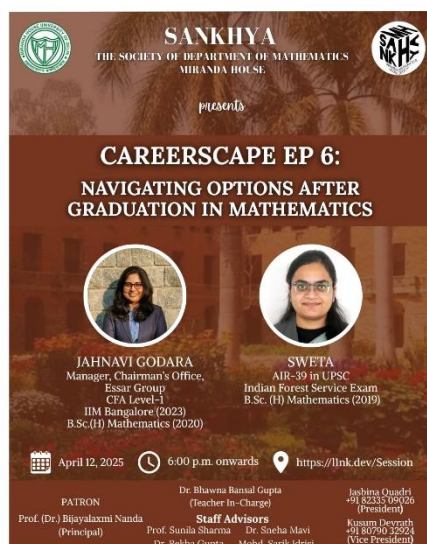
8. In collaboration with IQAC, the Department hosted a two-day **workshop on Mathematica** for first-year students on April 4th to 5 th, 2025, led by **Mr. Brij Mohan Assistant Professor at Hansraj College, known for his expertise in both Mathematics and Computer Science**. Day one covered Mathematica's core features, commands, and applications like differentiation, with hands-on exercises. Day two focused on coding, loops, and error handling. The interactive workshop, concluded with appreciation by Professor Sunila Sharma and a vote of thanks, equipped students with practical computational skills.



9. As part of the ongoing series of seminars and lectures, hosted by **SANKHYA**, on various career prospects after Mathematics, named **Careerscape**, the Society of the Department of Mathematics, held its 6th Episode, titled **“Navigating Options After Graduation in Mathematics”**. It took place virtually on April 12, 2025, at 6:00 p.m. The session explored diverse career paths for mathematics graduates in management and public service, featuring **alumni Jahnvi Godara, Manager at Essar Group’s Chairman’s Office** and IIM Bangalore alumna (2023), and **Sweta, who secured AIR 39 in the UPSC Indian Forest Service Examination**. The event provided inspiring insights, highlighting the versatility of a mathematics degree and motivating students to pursue impactful careers with confidence.



# Miranda House UNIVERSITY OF DELHI



## Part B.2

**Extension Activities organized**

## Part B.3

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



# Miranda House UNIVERSITY OF DELHI

1. **SANKHYA**, Miranda House's Mathematics Society, organized its annual fest, **ORIGIN'25**, on **February 28, 2025**. It stood as a cornerstone event fostering innovation, passion, and celebrating women in mathematics. Bursting with spirit and determination, 95 students took part in Origin's exciting line-up of events, turning it into a festival of brilliance. Creative Constant, with 5 participants, was won by Arnav Jain and Sehej Verma for exploring patterns in nature. MatheMaTeX, with 17 participants, was won by Team Temper (Ayush Sharma & ShivShanker). Mission: Math-possible, an escape room with 11 participants, was won by Team अन-Jaan रही-z. Originals, an all-day exhibition with 8 participants, showcased students' original mathematical models and infographics, sparking engaging discussions. Quest-O-Maths, with 14 participants, featured quizzes and case studies on women mathematicians' contributions and was won by Krish and Vedika Aggarwal. Formula 3.14, a math-themed board game with 4 participants, was won by Ananya Gupta. The valedictory session honored winners, celebrating teamwork and creativity. ORIGIN'25 highlighted the vibrant spirit and intellectual vigor of the Miranda House Mathematics Department.

