



# Miranda House

## UNIVERSITY OF DELHI

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### Departmental Annual Report - 3

#### Departmental Activities: Curriculum and Beyond

**Department: Mathematics**

**Year: 2022-23**

**Department Society and its Office Bearers:**

<b>President</b>	<b>Twisha Dixit</b>
<b>Vice-President</b>	<b>Mehak Gupta</b>
<b>General Secretary</b>	<b>Jaya Singhal</b>

**Staff Advisors:**

**Teacher-in-Charge: Dr. Monika Arora**

<b>Staff Advisors</b>
<b>Ms. Apeksha</b>
<b>Mr. Manoj Rawal</b>
<b>Mr. Mohit Kumar Machchal</b>

#### Part B.1

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



# Miranda House UNIVERSITY OF DELHI

1. On 6th August 2022, Department of Mathematics, Miranda House, organized an online doubt clearing session with Ms. Shruti Goyal on internships and placements. Having served as the President of Placement Cell of Miranda House (2021-22) she briefed the students on the resume format to be followed, the procedure of placements on campus and guided them on exploring various internship roles.

**SANKHYA**  
DEPARTMENT OF MATHEMATICS  
MIRANDA HOUSE  
*presents*

**FAQs ON  
PLACEMENTS AND  
INTERSHIPS**

EXCLUSIVELY FOR MATHEMATICS DEPARTMENT

DATE - 6TH AUGUST, 2022  
TIME - 11 : 00 AM  
MODE - ONLINE

For further information, contact:  
Twisha Dixit (President)  
7897710849  
Mehak Gupta (Vice-President)  
9311475299

Shruti Goyal  
President,  
Placement Cell,  
Miranda House  
(2021-22)

2. On 20th September, Pankaj Singh, a research scientist and Image Informatics lead at the Texas A&M Health Science Centre was invited as a speaker on “Introduction to Data Science and its Application using Python.” He provided students with a fundamental understanding of Data Science while also providing them practical understanding of Python Libraries. He closed the seminar by encouraging young people to delve into the field of Data Science.

**SANKHYA**  
DEPARTMENT OF MATHEMATICS  
IN COLLABORATION WITH  
IQAC  
MIRANDA HOUSE  
*presents*

**WEBINAR ON THE TOPIC**

**INTRODUCTION TO DATA SCIENCE  
AND  
ITS APPLICATIONS USING PYTHON**

DATE: 20TH SEPTEMBER, 2022  
TIME: 7:00 PM  
MODE: ZOOM  
LINK: <https://us02.zoom.us/j/9553707963>  
PW: 822PWC3BWKXMK9ZFMZAZAE6MZZ  
83

**DR. PANKAJ SINGH**  
Image Informatics Lead/Research Scientist  
Texas A&M University, Houston

FOR FURTHER INFORMATION, CONTACT:  
DR. MONIKA ARORA (CONVENOR)  
9971350579  
MR. MANOJ RAWAL (STAFF ADVISOR)  
9868913110  
MS. APEKSHA VERMA (STAFF ADVISOR)  
9850697251  
MR. MOHIT KUMAR MACCHAL (STAFF ADVISOR)  
9958470480  
MS. TWISHA DIXIT (PRESIDENT)  
7897710849

3. Paving way for more academic endeavors, in collaboration with IQAC, Miranda House, Department of Mathematics conducted an informative lecture on “Fundamentals of Real Analysis”. Dr, H. Ananthnarayan, Assistant Professor, Department of Mathematics, IIT Bombay led the students from basics of analysis to a peak of sequences and series. He advised students on the opportunities in research and academics after graduation.

**Sankhya**  
Department of Mathematics  
in collaboration with  
IQAC - Miranda House  
*presents*

**A SEMINAR ON**

**FUNDAMENTALS  
OF REAL ANALYSIS**

**H. ANANTHARAYAN**  
ASSISTANT PROFESSOR, IIT BOMBAY

19 NOV. 2022 | SEMINAR HALL

10:15 - 11:30 : Talk  
11:30 - 12:15 : Discussion

Organising Team:  
Dr. Monika Arora  
+919971350579  
Teacher-in -Charge  
Dr. Shweta Gandhi  
+919958410115  
Jaya Singhal  
+918875067320



# Miranda House UNIVERSITY OF DELHI

4. On 13th January, in collaboration with IQAC-Miranda House, esteemed alumni of the Department, Ms. Jasika Singh, who worked as the Deputy Head was invited to host a talk on “Insurance Analytics and Fraud Detection”. She gave the audience an insight into the world of an actuary, the key skill sets required to become an actuary, the roles to play if one enters this field, and an overview of how to prepare for the exams. She expounded on the importance of patience and dedication in becoming a great actuary.

SANKHYA - DEPARTMENT OF MATHEMATICS  
in collaboration with  
IQAC - Miranda House  
presents

## CAREERSCAPE

CHALKING OUT A WAY FORWARD WITH OUR ALUMNI

EPISODE - 3  
A SEMINAR ON

### INSURANCE ANALYTICS AND FRAUD DETECTION

**JASIKA SINGH**  
DEPUTY HEAD ACTUARIAL ANALYTICS, MUNICH RE

A qualified actuary with over 5 years of experience in the reinsurance industry

January 13, 2023 | Lab 318 | 10.30 am

**For Queries, Contact:**

Dr. Manika Arora (Convener) +91 9971352579	Mr. Mohit Macchal (Staff Advisor) +91 9958470490	Twisha Dixit (President) +91 9897712849
Ms. Apolsha (Staff Advisor) +91 9626697952	Mr. Manoj Rawal (Staff Advisor) +91 996891212	Mehak Gupta (Vice-President) +91 98111212

5. The Department of Mathematics in collaboration with IQAC-Miranda House organized a seminar on “Bureaucracy in India” with the esteemed Indian Audit and Accounts Service officer, Dr. Shourjo Chatterjee on 18th January 2023. He impressed that the aim of the session was to discuss what it entails to be a bureaucrat and what an enthusiast can expect from the profession in the future. The session mainly focused on the Civil Services Examination and the functioning of different officials of the Civil Services while explaining how bureaucracy functioned alongside the Government of India.

SANKHYA, Department of Mathematics  
in collaboration with  
IQAC - Miranda House  
presents

## A BUREAUCRAT IN INDIA

Indian Audit and Accounts Services

**DR. SHOURJO CHATTERJEE**

Dr. Shourjo Chatterjee is an officer of the 2001 batch of the Indian Audit and Accounts Service. He is also a Certified Internal Auditor and Certified Information Systems Auditor.

11 AM | JAN 18 | MINI AUDITORIUM (158)

**OPEN FOR ALL MIRANDIANS**

**For queries, contact:**

Dr. Manika Arora Convener +919971350379	Mr. Mohit Macchal Staff Advisor +91 9958470490	Mehak Gupta Vice-President +9198111212
Ms. Apolsha Staff Advisor +91 9626667238	Mr. Manoj Rawal Staff Advisor +91 9968912110	Jaya Singhal General Secretary +91 88750 67320



# Miranda House UNIVERSITY OF DELHI

6. The Department of Mathematics, Miranda House, in collaboration with IQAC, organized a two-day Capacity Building Workshop on Mathematica, a software widely used in various fields of research and academia, on May 22 and 23, 2023, with Mr. Brij Mohan as the speaker. The workshop was organized for the first-year students to familiarize them with Mathematica and coding.

**SANKHYA**  
DEPARTMENT OF MATHEMATICS  
IN COLLABORATION WITH  
**IQAC - MIRANDA HOUSE**  
is organizing

**CAPACITY BUILDING  
WORKSHOP FOR  
STUDENTS ON  
MATHEMATICA**

**MR. BRIJ MOHAN**  
Assistant Professor  
Department of Mathematics  
Hansraj College

**DATE :** 22-23 MAY 2023  
**TIME :** 9:00 AM - 2:00 PM  
**VENUE :** LAB 318

EXCLUSIVELY FOR MATHEMATICS DEPARTMENT  
 COMPULSORY FOR FIRST YEARS

**REGISTER NOW**

**FOR MORE QUERIES, CONTACT :**

DR. MONIKA ARORA (CONVENOR) 9971350579	MR. MOHIT MACCHAL (STAFF ADVISOR) 9968473406	SIRVAN SAMANT (PRESIDENT) 8218104459
MS. APEKSHA (STAFF ADVISOR) 9650667251	MR. MANOJ RAWAL (STAFF ADVISOR) 9968913110	ISHIKA (VICE PRESIDENT) 7027375070

7. On 15th June, 2023, Sankhya, the Society of Department of Mathematics, Miranda House in collaboration with Miranda House-IQAC, organized a seven day workshop, 'Mathematical Data Science Workshop' led by Dr. Niteesh Sahni, Associate Professor, Department of Mathematics, Shiv Nadar University. The workshop did an in-depth mathematical treatment of the various topics in addition to the demonstration of the various methods on real world data sets. No prior knowledge of programming was assumed. The mathematics involved will include mainly Linear algebra, Vector calculus, Probability and Statistics.

**SANKHYA - DEPARTMENT OF MATHEMATICS**  
In collaboration with  
**IQAC - MIRANDA HOUSE**  
presents

**Dr. Niteesh Sahni**  
Associate Professor  
Department of Mathematics  
Shiv Nadar University

**A WEEK LONG CAPACITY  
BUILDING WORKSHOP/TRAINING  
PROGRAM  
ON  
MATHEMATICAL  
DATA SCIENCE &  
APPLICATIONS**

**15 - 21 JUNE 2023**  
**9:00 AM ONWARDS**  
**MATHEMATICS LAB 318**

**PAID WORKSHOP  
AMOUNT TO BE PAID : ₹1000**

**For more details, contact:**

DR. MONIKA ARORA (CONVENOR) 9971350579	MR. MOHIT MACCHAL (Coordinator) 9968473406	SIRVAN SAMANT (PRESIDENT) 8218104459
	MR. MOHID SARKIS IDRAI (Coordinator) 9968997380	ISHIKA (Vice President) 7027375070



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### Part B.2

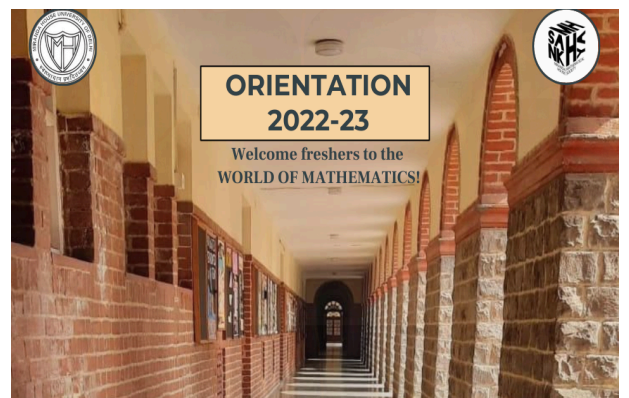
#### Extension Activities organized

1. Teacher's Day 2022 (5 September 2022)

SANKHYA, the Society of Department of Mathematics, Miranda House, celebrated Teacher's Day on the 5th September 2022. The event was organized in the Student Activity Centre where all the students and teachers of the department had gathered to witness the commemoration with fervor and zeal.

2. Fresher's Orientation:

SANKHYA, the Society of Department of Mathematics, Miranda House organized the Departmental Orientation on November 2, 2022, for the upcoming batch of first years. The event was graced by the presence of the Department faculty, namely, Dr. Manjari Kiran Srivastava, Dr. Sunila Sharma, Dr. Daulti Verma, Dr. Meetu Bhatia Grover, Dr. Ritu Gupta, Dr. Rekha Gupta, Dr. Durvesh Verma, Mr. Mohit Kumar Machhal, Dr. Shweta Gandhi, Mr. Bikram Singh and Mohd. Sarik Idrisi and the second and third year students.





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### 1. Fresher's Welcome:

The Department of Mathematics celebrated the reception of the Batch of '26, Hall of Fame on 13 January 2023.



2. ORIGIN, the Annual Fest of the Department of Mathematics, entered its 26th year of celebration on 23rd February 2023. Various events were organized including Pradarshan: Poster Presentation Competition, Matholics, Mathomania: Mathematics@Mathematica, Treasure Thrift: Unravel the Unknown, Dad of Ad.



### Part B.3



# **Miranda House**

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