

DEPARTMENT OF MATHEMATICS

About the Department

The Department of Mathematics aims at providing in-depth knowledge of the subject which enables students to pursue their career in diverse range of fields like banking, civil services, corporate sector, actuarial sciences, teaching, research and many more. For the overall development of students, varied range of activities are organized which includes talks, seminars, workshops, quizzes, field visits, excursions and fun events.

Teacher In-Charge: Dr. Sharda Sharma Gautam

Association In-Charges: Dr. Mukta Garg (Tenure: 2021-23), Dr. Arti (Tenure 2023)

Activities 2022-2023

FAREWELL 2023

The Department of Mathematics, Janki Devi Memorial College organized the farewell for its graduating batch of 2022-23. The event was held on 25th April, 2023 in the college auditorium. The event started with a heartfelt message by Dr. Sharda Sharma Gautam, Teacher In-charge, Department of Mathematics. The event was graced by Prof. Swati Pal, Principal, Janki Devi Memorial College who enlightened the students with her inspirational words and extended her best wishes to all the students. Singing and dance performances from the 1st year students were enjoyed by everyone.

The farewell was based on the theme “Ethnic with a Twist”. The competition for the titles was conducted in three parts. The Round 1 was 'Ramp walk'. The Round 2 was to tell a funny memory of the college. The Round 3 was the 'talent hunt '.

The winners were as follows: -

- 1) Miss Farewell 2023- Divya
- 2) First Runner Up- Harshita Sejwal
- 3) Second Runner Up- Mitali Bareja

Thereafter, Dr. Ritu Arora, shared her inspiring and heartening words with the students. The farewell 2022-23 ended on a great note, filled with nostalgia, fun and excitement.

Poster of the Farewell 2022-23



Pictures of the Farewell



Prof. Swati Pal with the graduating batch 2022-23



Title holders along with the faculty of Department of Mathematics



Student Union 2022-23 and faculty of the Department of Mathematics

National Webinar on the topic

"Encryption and Decryption using RSA Algorithm in Signed Graph Structures "

The Department of Mathematics, Janki Devi Memorial College, University of Delhi organised a national webinar on the topic "Encryption and Decryption using RSA Algorithm in Signed Graph Structures ". The session was held on 3rd April, 2023 at 3:30 p.m. via Zoom Platform. The resource person for the session was by Prof. Deepa Sinha (Chairperson, Department of Mathematics, South Asian University).

The speaker enlightened the students with her deep knowledge about the topic. She explained the students about the system model and sigraphs and briefed them about the encryption and decryption algorithm. She also talked about encryption using network and matrices through signed graphs.

The session also turned out to be very informative for the mathematics enthusiasts. It was attended by the students and faculty of the department of mathematics.

Poster of the webinar

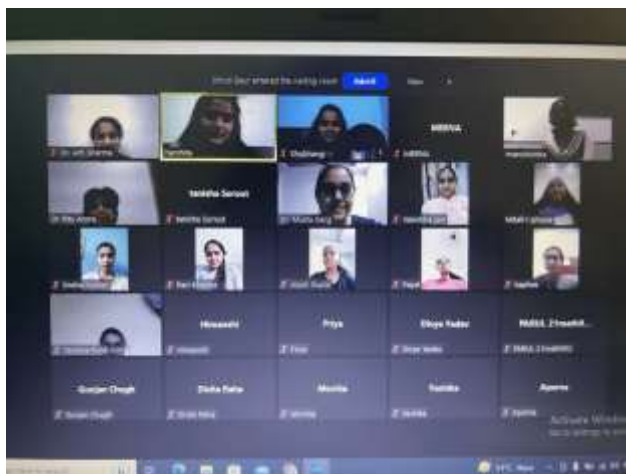
Janki Devi Memorial College
(University of Delhi)
DEPARTMENT OF MATHEMATICS
presents
National Webinar
on
**"Encryption and Decryption using RSA
Algorithm in Signed Graph Structures"**
by
Prof. Deepa Sinha
Department of Mathematics
South Asian University, Delhi

3rd April, 2023 (Monday)
3:30 PM
(Login time: 3:15 PM)
Zoom Platform

Registration link :
<https://forms.gle/KnmKEgBfPMSEBE796>

E-certificates will be provided

Dr. Mukta Garg (Convenor) Dr. Arti Sharma (Convenor) Dr. Sharda S. Gautam (Teacher In-charge) Prof. Swati Pal (Principal)



Prof. Deepa Sinha and Department of Mathematics.

Pi day - 14th March, 2023

The Department of Mathematics, Janki Devi Memorial College, University of Delhi organized a movie screening – “THE IMITATION GAME” on the occasion of Pi day (International day of Mathematics) - 14th March, 2023 at 12:00 pm in the Seminar room, JDMC for the students of the Mathematics Department. Around 60 students were present at the time of screening.

The movie was based on Alan Turing, a British mathematician, who joined the cryptography team to decipher the German enigma code. With the help of his fellow mathematicians, he built a machine to crack the codes.

The movie screening aimed at inspiring students and encouraging them with a message that **Those people no one expects anything from, do the things no one expects.**

Poster for the event:



Pictures of the event:



Students' union with Association In-charges.



Movie screening- "The Imitation Game".

Freshers' Welcome

The Department of Mathematics, Janki Devi Memorial College successfully organized its Freshers' Welcome on 25th February 2023 at 9:00AM in Auditorium. It was attended by 165 people of Mathematics Department including students and teachers. The theme of the Freshers' Welcome was "Hindi Cinema". For the title of Miss Fresher'22, 15 students participated. The competition was held in 3 Rounds. The Round-1 was a "Ramp Walk Round". In the Round-2, participants were asked to enact a dialogue of their respective characters. Finally, Round-3 was a "Quiz" round.

The competition started with the best wishes of Dr. Sharda Sharma Gautam, Teacher In-charge, Department of Mathematics. The judges for this event were Soumya vig – President of students' union, JDMC and Vanshita Sehgal – Miss Fresher'20, Department of Mathematics, JDMC. The winners were as follows:

1)Miss Fresher'22 – Uarvashi.

2)Miss Diva- Sanya sharma

3)Miss Best Dressed- Khushi kaintura

4)Miss Best Mimicry- Rashmi singh



Pictures of the program:

Poster for the program.



Winners of freshers'22 with teacher in- charge and senior faculty.



Students' union with teacher in-charge and senior faculty

Mashup Maths - Short Film Competition

Department of Mathematics, Janki Devi Memorial College, University of Delhi organised "Mashup Maths-Short Film Competition" under the college's Annual Festival Symphony'23 on 12th January, 2023 at 11:30 a.m. in room no. 68.

At the beginning of the event, all the participants were motivated by the judges of the event Dr. Samridhi Mehta and Dr. Vrinda Kapur. Participants came from various departments of different colleges (Lady Shree Ram College for Women, Miranda House, Keshav Mahavidyalaya etc).

The participants showcased their creativity and talent through their short videos by which everyone was mesmerized. The theme of their short films were 'World through the lens of mathematics student'. Around 11 teams participated in the event and it turned out to be a great success.

The winners of the competition were:-

1. Anand and Anish from Dyal Singh Evening College.
2. Sparsh Verma from Keshav Mahavidyalaya
3. Ananya and Sakshi from Miranda House and Lady Shri Ram College for Women respectively.



Poster for the competition.



Participants with the judges and convenors.



Judges honouring the winners with certificates.



Judges and Convenors with the students' union.

“Unveiling Maths – Paper Presentation”

The Department of Mathematics, Janki Devi Memorial College, University of Delhi organised it's "Unveiling Maths-Paper Presentation" event under the college's annual fest Symphony 2023 on 11th January, 2023 at 11:30 am in the room no.13.


At the beginning of the event, all the participants got motivated by our judges Dr. Priyambada Tripathi, Assistant Professor, Dept. of Mathematics, Dyal Singh College, University of Delhi and Dr. Ritu Arora, Associate Professor, Dept. of Mathematics, JDM College, University of Delhi. Participants came from various departments of different colleges (Vivekanand college , Ramjas College , Netaji Subhash University of Technology, etc) and participated enthusiastically giving a detailed view of what Mathematics stands for when it comes to our daily life.

Also our judges kept on asking about the topics presented by our participants making the event more knowledgeable. Around 9 teams participated in the event.

It turned out to be an interactive and informative event.

The winners were

- 1) First Winner-Mukhar Bhardwaj from Netaji Subhash University of Technology
- 2) Second Winner-Vidhi Choudhary from Janki Devi Memorial College
- 3) Third Winner-Aditya Kumar from Ramjas College



Janki Devi Memorial College
(University of Delhi)

RADIAN-CE
The Mathematics Society
SYMPHONY 2023
'Piece- Fly above the Rest'

'Unveiling Math -Paper Presentation'


REGISTER NOW.....

PRIZES:-
(1) 1ST PRIZE :- RS.2500/-
(2) 2ND PRIZE :- RS.2000/-
(3) 3RD PRIZE :- RS.1500/-

Theme:- Mathematics in everyday life.

Date:- 11 January 2023
Reporting Timing :- 11:00 AM
Venue:- Room No.14

YOU'RE THE NEXT TO GRAB
HURRY UP GUY'S.....

Register Through  **Deadline - 9 January 2023**

Ms. Teena Kohli (Convenor) Dr. Arti Sharma (Convenor) Prof. Swati Pal (Principal)





Career Opportunities in Mathematics

Department of Mathematics, Janki Devi Memorial College, University of Delhi successfully organized a webinar on "Career Opportunities in Mathematics" on 9th January, 2023 at 4:00 p.m on Zoom platform.

The resource person Dr. Pooja Punyani (Assistant Professor, Department of Applied Sciences, NorthCap University) enlightened the students with her knowledge about various career opportunities in mathematics. She explained in detail about various fields which students can pursue after B.Sc.(H) Mathematics like Ph.D. and Postdoc, Data Analysis, Actuarial Science, Operational research etc. She also talked about various scholarships for which students can apply to do higher studies.

At the end, students asked their queries which were taken care by Dr. Pooja Punyani. It turned out to be an interactive and informative session. Around 60 students attended.

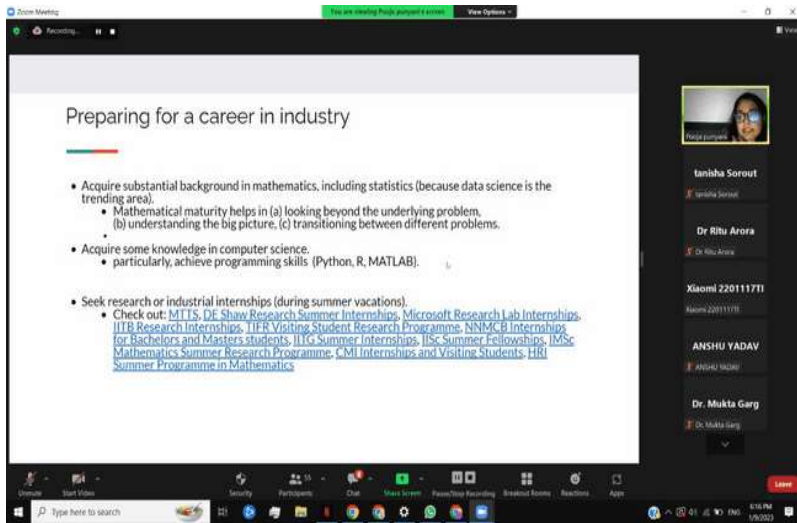
Janki Devi Memorial College
(University of Delhi)
Department of Mathematics
presents
Webinar
on
Career Opportunities in Mathematics
Resource Person:
Dr. Pooja Punyani
Assistant Professor, Department of Applied Sciences, NorthCap
University (PhD in Mathematics, IIT Delhi)

Date - 9 Jan 2023
Time - 4:00 PM
Platform - Zoom
E-certificates will be given to all the participants

Register Through

Dr. Mukta Garg (convenor) Dr. Arti Sharma (Convenor) Dr. Sharda Sharma Gautam (Teacher-In-Charge) Prof. Swati Pal (Principal)

Poster for the webinar



Dr. Pooja Punyani explaining about career in industries.



Dr. Pooja Punyani taking up the queries.

Association In-Charges: Mr.Vikas Jorwal (Tenure: 2022-23), Dr. Mukta Garg (Tenure: 2021-23).

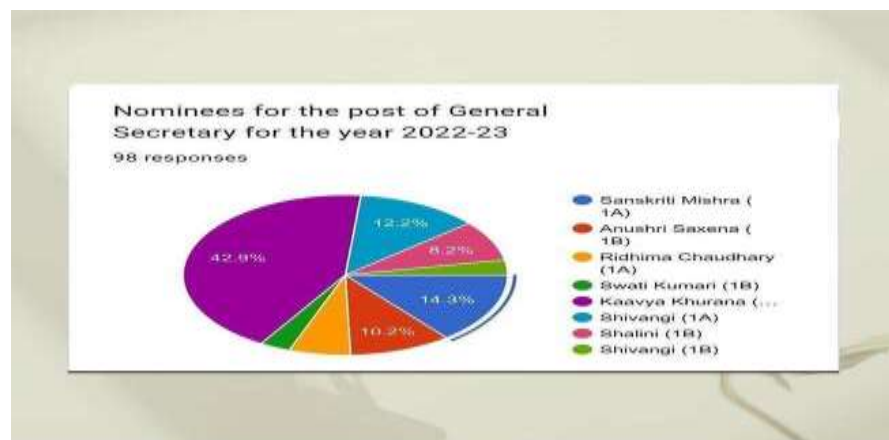
Departmental Elections for the Post of General Secretary (2022-23)

The Department of Mathematics conducted its Students' Union elections for the post of General Secretary for the Academic Session 2022-23 from B.Sc.(H) first year students on December 28, 2022 from 4p.m. to 6p.m. The entire department set out to vote digitally via Google Forms. The total number of votes casted by the students were 98. The results were declared on the same day via WhatsApp at 8:30p.m.

The conduction process was smooth, without any discrepancies and results were displayed with proper statistics as:

Kaavya Khurana (1 B)- General Secretary.

Statistical view of results



Orientation Program - II

The Department of Mathematics, Janki Devi Memorial College, University of Delhi organized its "Orientation Program - II for the first-year students of B.Sc. (H) Mathematics (Batch 2022–2026) on December 28, 2022, at 12:30p.m in room no. 40.

All the students were briefed about the department's faculty members and different college societies by Students' Union Members.

Dr. Sharda Sharma Gautam, Teacher In-charge, Department of Mathematics informed the students about important rules and regulations of the college. Students facing problems were told to ask their queries which were taken care by the faculty members of the Mathematics Department.

The orientation was well attended by 54 students and it turned out to be very interactive.

Pictures of the Program:



Dr. Sharda Sharma Gautam addressing the first year students.



First year students discussing their queries with the faculty members.

Webinar on Formulas and Formatting in Excel

The Department of Mathematics, Janki Devi Memorial College, the University of Delhi in association with NCWEB teaching center, JDMC successfully organized a webinar on Formulas and Formatting in Excel on 19th November 2022 at 6:30 p.m on Zoom platform.

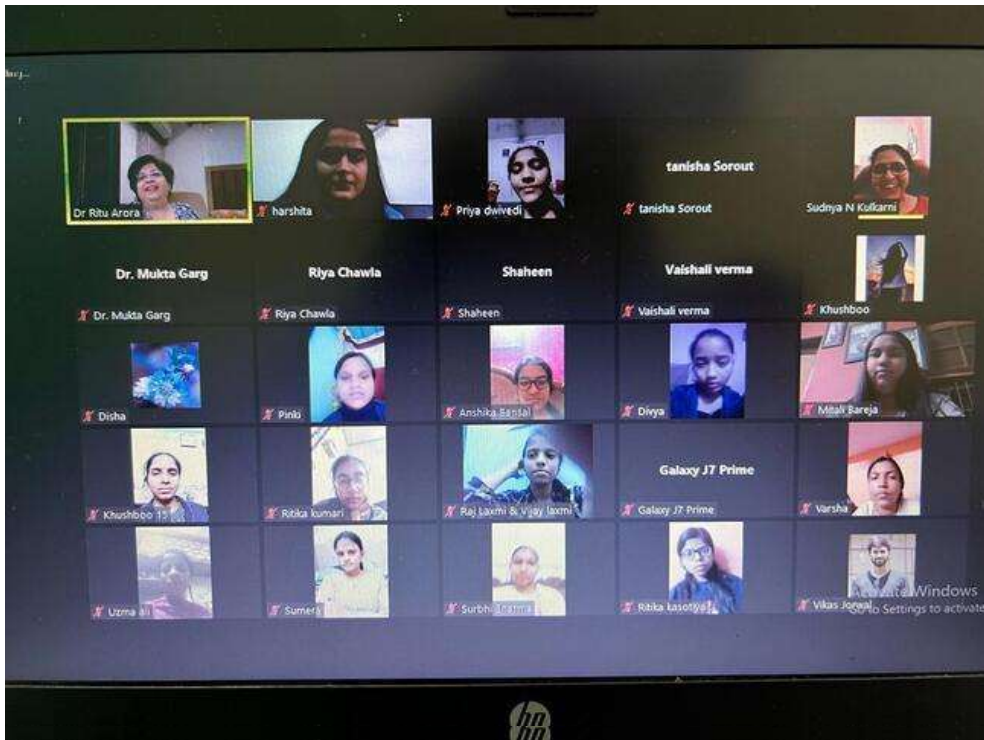
After the basics were done in the earlier webinar, Dr. Ritu Arora took up formulas used in excel for mathematical calculations and different types of formatting i.e. tricks that we can use to modify the data's appearance in a worksheet. She explained formulas used to perform different types of functions such as countifs, sumifs, maxifs, and averageifs.

She also explained Absolute referencing and Relative referencing with the help of examples.

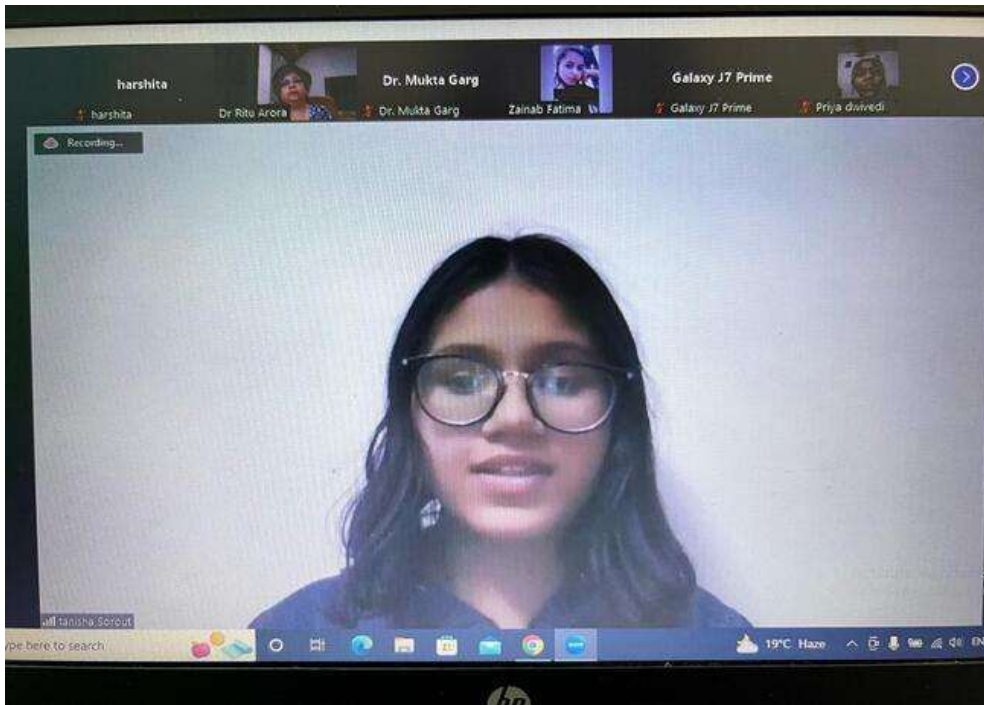
It turned out to be an interactive and informative session. Around 90 students attended the webinar. At the end, students asked their queries which were answered by the speaker Dr. Ritu Arora.

The poster features a blue background with mathematical symbols and a calculator. At the top, there are logos for Janki Devi Memorial College, AICTE, and NCWEB. The main text reads: "Janki Devi Memorial College DEPARTMENT OF MATHEMATICS in association with JDMC, NCWEB Teaching Centre organises Webinar on 'Formulas and Formatting in Excel' by Dr. Ritu Arora (Department of Mathematics)". A yellow banner on the left says "Let's Join" and lists the date "19th Nov, 2022 (Saturday)", time "6:30 PM - 8:30 PM", and platform "Zoom Platform". Below this, it states "*for NCWEB Students only*", "*Registration is free but mandatory*", and "*E-certificates will be provided*". On the right, a circular inset shows a calculator and a bar chart. A blue ribbon seal is also present. At the bottom, a yellow banner lists the convenors: Dr. Mukta Garg, Mr. Vikas Jorwal, Dr. Sudnya Kulkarni, and Prof. Swati Pal. A registration link is provided: <https://forms.gle/5Sm3FH5yzKSIRMay5>.

Poster for the webinar



Dr. Ritu Arora explaining formulas and formatting in excel



Union member giving the vote of thanks

Webinar on Basics of Microsoft Excel

The Department of Mathematics, Janki Devi Memorial College, University of Delhi in association with NCWEB teaching centre, JDMC successfully organised a webinar on Basics of Microsoft Excel on 12th November, 2022 at 6:30 p.m on zoom platform.

Dr. Ritu Arora started with how to enter a data in proper format applying cell borders and cell shading etc, then she explained other features step by step from writing and formatting column texts and titles to excel auto-fill features, from excel computational powers to storing, organising and tracking data.

There was an enormous response from the students, they asked their queries which were answered by Dr.Ritu Arora and it turned out to be an interactive session. Around 170 students attended the webinar.

The poster features a red background with a faint Excel spreadsheet grid. At the top, there are four logos: the University of Delhi, Azadi Ka Amrit Mahotsav, JDMC, and NCWEB. The main text reads: "Janki Devi Memorial College DEPARTMENT OF MATHEMATICS in association with JDMC, NCWEB Teaching Centre organises Webinar on 'Basics of Microsoft Excel' by Dr. Ritu Arora (Department of Mathematics)". A yellow banner on the left says "Let's Join" with a play button icon. Below it, a calendar icon indicates "12th Nov, 2022 (Saturday)", a clock icon shows "6:30 PM - 8:30 PM", and a location pin icon says "Zoom Platform". A blue ribbon seal with a checkmark is on the right. At the bottom, it lists the registration link: "https://forms.gle/xLgkttfNBPuz9s627" and the names of the convenors: Dr. Mukta Garg, Mr. Vikas Jorwal, Dr. Sudnya Kulkarni, and Prof. Swati Pal.

Janki Devi Memorial College
DEPARTMENT OF MATHEMATICS
in association with
JDMC, NCWEB Teaching Centre
organises
Webinar
on
"Basics of Microsoft Excel"
by
Dr. Ritu Arora
(Department of Mathematics)

Let's Join

12th Nov, 2022 (Saturday)

6:30 PM - 8:30 PM

Zoom Platform

for NCWEB Students only
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Registration link :
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Dr. Mukta Garg (Convenor) **Mr. Vikas Jorwal (Convenor)** **Dr. Sudnya Kulkarni (Teacher In-charge) (JDMC, NCWEB)** **Prof. Swati Pal (Principal)**

Poster for the webinar.



Dr. Ritu Arora explaining the important functions of Microsoft Excel.



Dr. Ritu Arora taking up the queries of the students.

Orientation Program

The Department of Mathematics, Janki Devi Memorial College, University of Delhi organised its Orientation Program for the first year students of B.Sc. (H) Mathematics (Batch 2022-2026) on 2nd November 2022 at 11:45 a.m in Room no. 66.

Newly admitted students were cordially welcomed and made familiar to the faculty members of the department and different societies of the college by Students' Union members of the Mathematics Association (2022-23).

Furthermore, Prof. Swati Pal, Principal of JDMC motivated the students to explore different societies of the college.

Afterward, Dr. Sharda Sharma Gautam, the Teacher In-charge, of the Department of Mathematics enlightened the students with her in-depth knowledge, and Dr. Tanu Gupta, Faculty of the Department of Mathematics, discussed the curriculum to be followed in the first year of B.Sc. (H) Mathematics.

All the students eagerly asked their queries about the college and their queries were successfully taken care by all the faculty members of the department.

Pictures of the Program:



Prof. Swati Pal addressing the new batch of B.Sc. (H) Mathematics 1st Year (2022-26)



Dr. Sharda Sharma Gautam enlightening the first year students.



Dr. Tanu Gupta discussing the curriculum with the first year students.



Union members discussing about college societies with the new batch.



Poster of the orientation program.

Workshop on MS Word, MS PowerPoint and MS Excel-Level 2

Department of Mathematics, Janki Devi Memorial College, University of Delhi organized level-2 of the 3-Day Online Workshop under the aegis of IQAC on the topic “MS Word, MS PowerPoint, and MS Excel” from 29th September to 1st October 2022. The resource persons for the workshop were Dr. Diksha Grover and Dr. Ritu Arora. Dr. Diksha explained MS Word MS PowerPoint and MS Excel efficiently and Dr. Ritu Arora explained MS Excel and it's working. The workshop was a great success and was well attended by more than 50 participants.

Janki Devi Memorial College
DEPARTMENT OF MATHEMATICS

under the aegis of
Internal Quality Assurance Cell (IQAC)

presents
Level 2
of
3-Day Online Workshop
on
MS Word, MS Power Point and MS Excel

Resource persons
DR. DIKSHA GROVER
(Department of Computer Science)
and
DR. RITU ARORA
(Department of Mathematics)

29th Sep - 1st Oct, 2022

4:00 pm to 6:00 pm

Zoom

• Registration is free but mandatory
For Faculty and Students of JDMC only

Dr. Ritu Arora (Convenor) Ms. Teena Kohli (Convenor) Dr. Sharda Sharma Gautam (Teacher In-charge) Prof. Swati Pal (Principal)

Recording... You are viewing Diksha Grover's screen View Options

Book1 - Good

File Home Insert Page Layout Formulas Data Review View Tell me what you want to do...

Clipboard Font Paragraph Styles Alignment Numbering Calculation Conditional Formatting Cell Styles Insert Delete Format Font Styles Sort & Filter Filter - Select

ABC PVT LTD.

FOR THE YEAR 2022

S.NO	NAME	MARKS1	MARKS2	TOTAL	GRADE
1	A	45	88	133	20
2	B	56	77	135	20
3	C	78	66	144	20
4	D	88	55	144	20
5	E	90	90	180	10

Sheet1

Share

Start Video

Security

Participate

Chat

Share Screen

Host/Co-Host Recording

Reaction

Apps

Logout

Sunidhi

Shubhangi

Shivani singh

Dr Ritu Arora

Diksha Grover

TEENA KOHLI

Sonia(maths)

The top image shows a Microsoft Excel spreadsheet with a list of names and numbers. The spreadsheet is titled "Excel - Microsoft Excel" and contains data in columns A through H. The names listed are: TEENA KOHLI, Dr. Ritu Arora, Shubhangi, MITALI, Tara N., Kashika, and TEENA KOHLI. The numbers are: 73, 35, 90, 54, 34, 49, 45, 27, 87, 98, 80, 75, 37, 45, 90, 34, 45, 39, 56, 56, 38, 78, 70, 52, 45, 82, 53, 0, 34, 88, 75, 35, 103, 54, 54, 49, 45, 27, 87, 98, 80, 75, 37, 45, 90, 54, 45, 39, 56, 56, 38.

The bottom image shows a Zoom meeting interface with a grid of participants. The participants listed are: Kashika Chawla, Dr. Ritu Arora, TEENA KOHLI, Kashika Chawla, Dr. Ritu Arora, Kashika Chawla, Sonia(maths), Tara N., Dr. Prerna Arora, Shradha Yadav, Yashika (Maths), Varsa Verma, Deepika Ola, Ritu Arora, Anshu Priya, Tara N., Shivani singh, and Dr. Gurinder H....

JOY OF GIVING WEEK (October 2 to October 8)

The first week of the month of October is celebrated as the joy of giving week, i.e. we do work that provides joy to ourselves and to others, and so do students of our department do on this account. From Day 1 (i.e. October 2, 2022) to Day 6 (i.e. October 7, 2022), all the students engaged themselves in celebrating the joy of giving week at their individual level by planting saplings, feeding street animals, watering birds and maintaining their shelter, providing food to construction workers working in our college and much more.

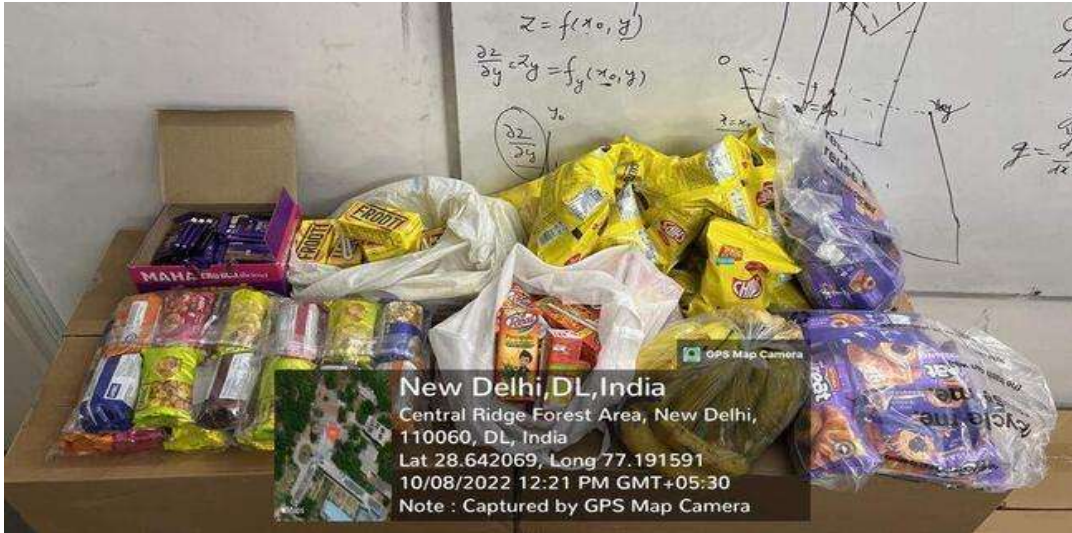


On the last day (i.e. October 8, 2022), some of the students of Maths department along with the department's Association in-charges Mr. Vikas Jorwal and Dr. Mukta Garg made a visit to Rashtriya Virja Nand Anndh Kanya Vidyalaya (RVAK) situated in New Rajinder Nagar, New Delhi.

We distributed food packages such as cookies, chocolates, fruits, juices, chips, cupcakes etc there on behalf of the department of mathematics.

All the children of the school were talented and full of life. The head of the school shared some inspiring stories of the children and the current working plans of the school. It was a wonderful experience meeting all of them.

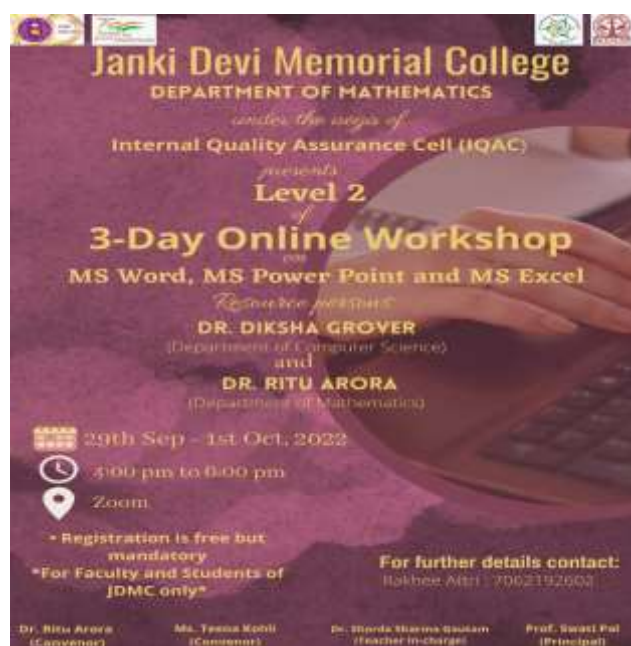
Eventually, the joy of giving week unfurled our inner joy that arouses when we do something for others selflessly.



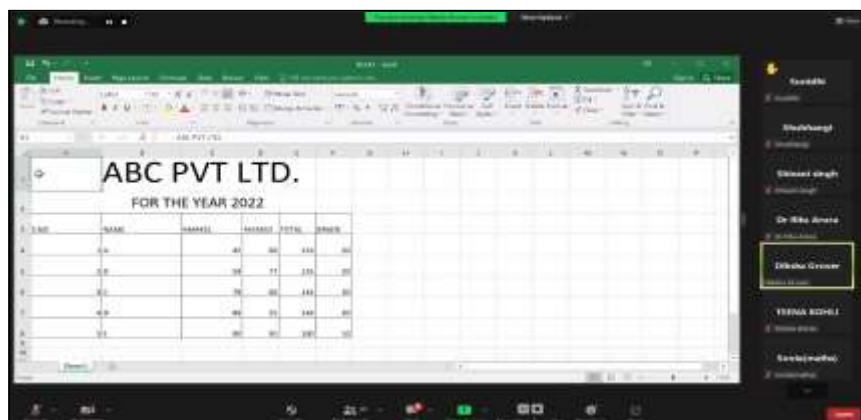
Online Workshop under the aegis of IQAC on the topic MS Word, MS PowerPoint and MS Excel

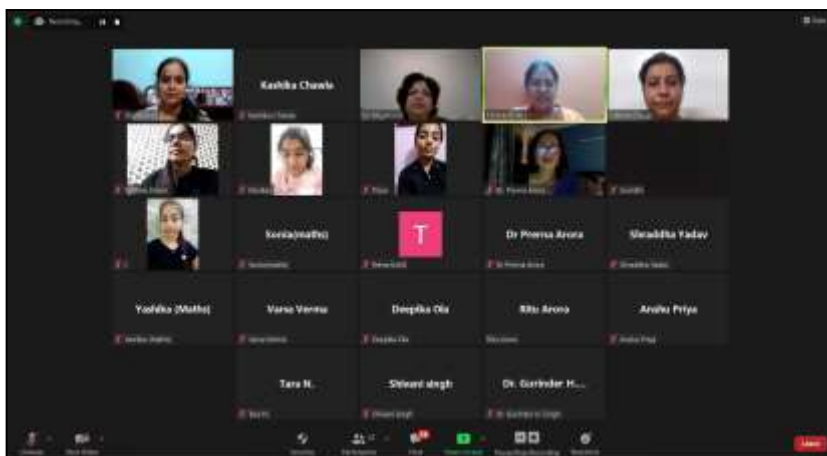
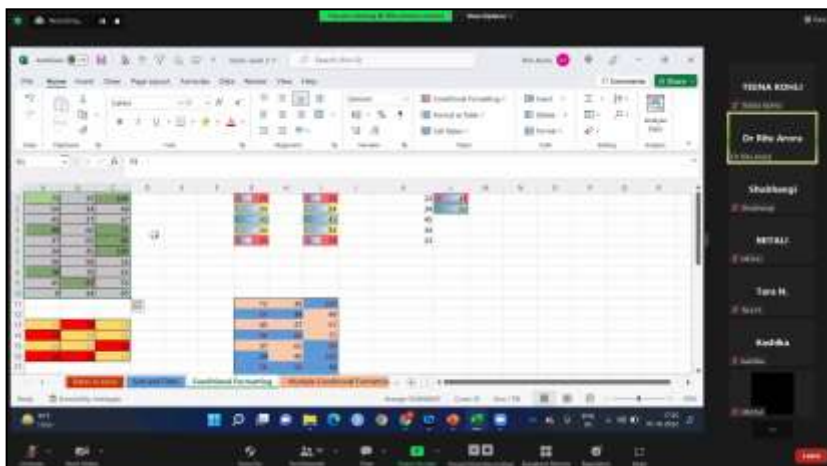
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Poster of the Workshop



Pictures of the Workshop





Departmental Elections (2022-23)

The Department of Mathematics conducted its Students' Union elections for the academic session 2022-23 on September 22, 2022. The entire department set out to vote digitally via Google Forms. The total number of votes casted by the students from 11am to 12:30pm were 151. The results were declared on the same day via Google Meet, an online platform, at 1:30 pm by the teacher in-charge of the department of mathematics, Dr. Sharda Sharma Gautam.

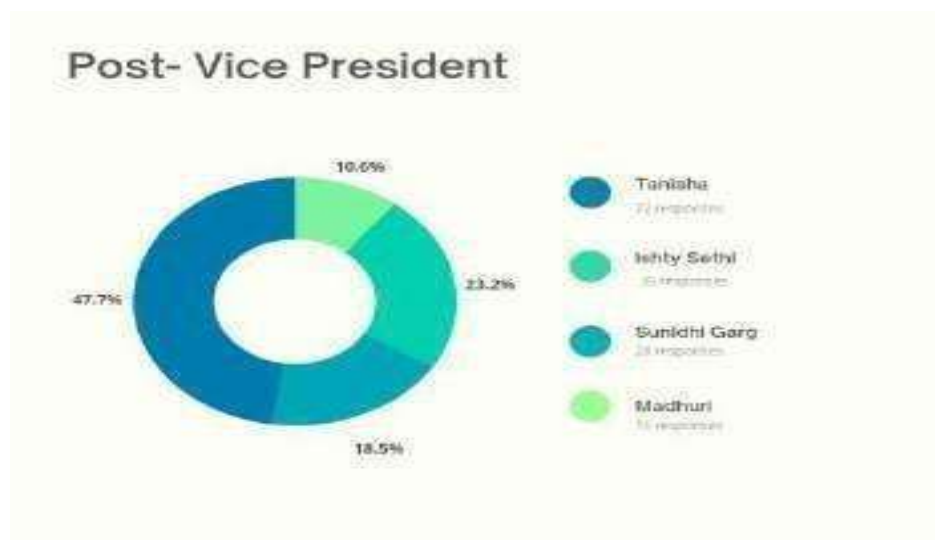
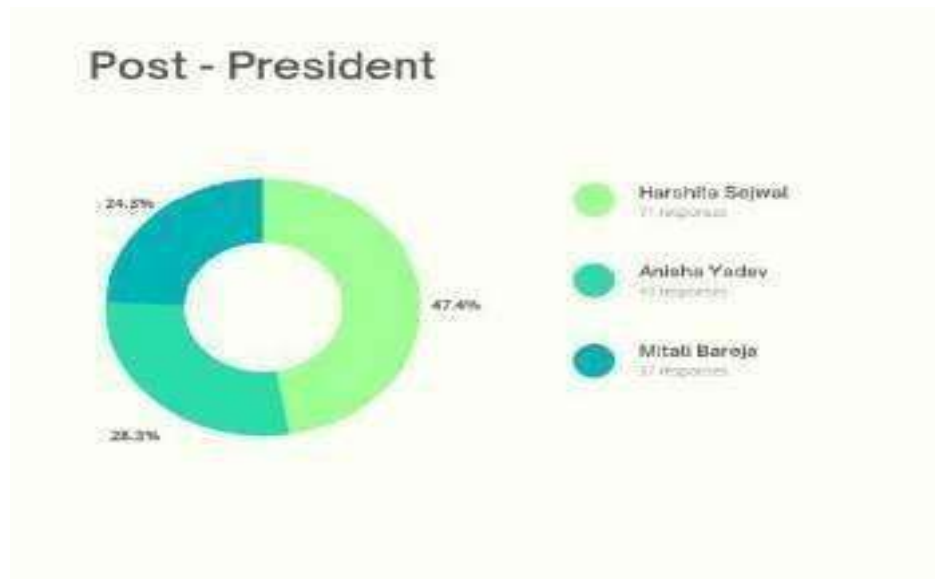
The conduction process was smooth, without any discrepancies and results were displayed with proper statistics as

Harshita-President

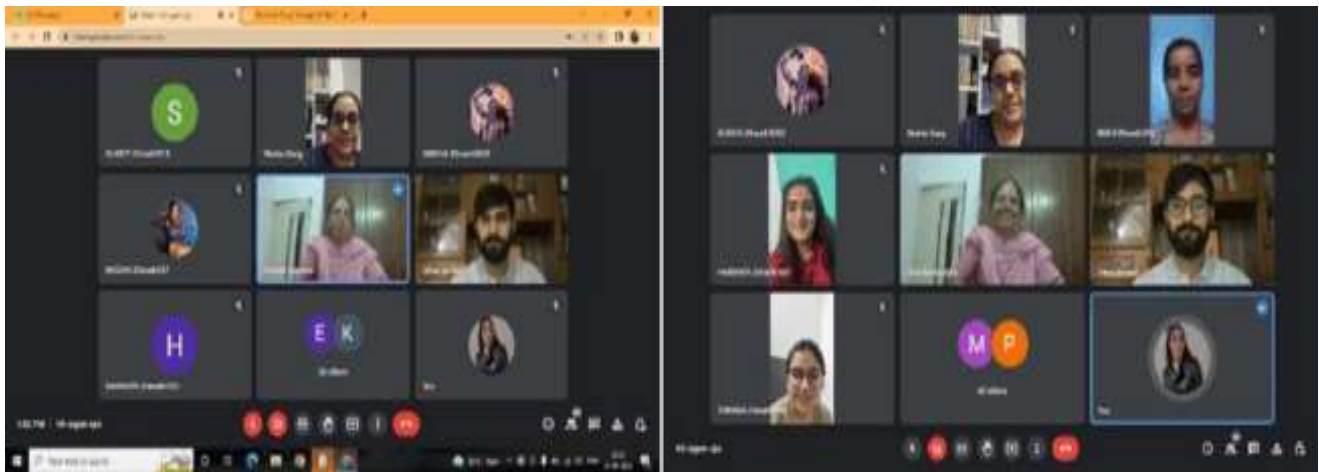
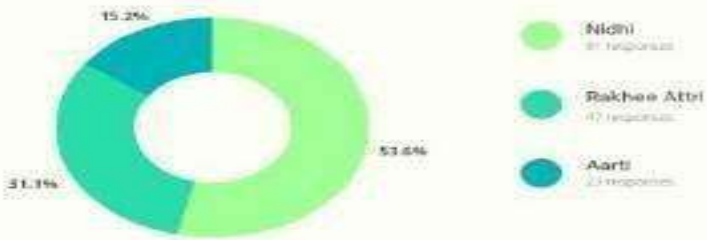
Tanisha-Vice President

Nidhi-Treasurer

Picture 1: statistical view of results:



Post - Treasurer



Picture 2: Results declared via Google meet

