

### Departmental Activities

The following activities were organised by the Mathematics Association during the academic session 2019-2021:

**Teacher In-charge: Dr. Ritu Arora**

**Association In-charges: Ms. Geeta and Dr. Rashmi Rani**

- A National webinar on “National Education Policy 2020 and Its Implications on Mathematics” by **Prof. Shobha Bagai**, Cluster Innovation Center, University of Delhi, for all the students and faculty members of different universities and colleges organised on 16<sup>th</sup> April, 2021. The webinar was attended by more than 245 participants from different domains and colleges.



The poster is for a webinar titled "NATIONAL WEBINAR ON NATIONAL EDUCATION POLICY 2020 AND ITS IMPLICATIONS ON MATHEMATICS". It is presented by The Department of Mathematics at Janki Devi Memorial College, University of Delhi. The speaker is Prof. Shobha Bagai, a Professor at the Cluster Innovation Centre, University of Delhi. The webinar is scheduled for 16th April, 2021, at 10:30 AM, lasting from 11 AM to 12 PM, and will be held on the Zoom app. E-certificates will be provided to all participants. The registration link is <https://forms.gle/PtjnCsXnupXw8j368>. The poster also lists the convenors (Ms. Geeta & Dr. Rashmi), the teacher in-charge (Dr. Ritu Arora), and the principal (Prof. Swati Pal). Contact information for queries is provided at the bottom.

**Janki Devi Memorial College**  
(University of Delhi)

**The Department of Mathematics**  
PRESENTS

**NATIONAL WEBINAR**  
ON

**NATIONAL EDUCATION POLICY 2020 AND  
ITS IMPLICATIONS ON MATHEMATICS**

**Speaker: Prof. Shobha Bagai**

 Professor at Cluster Innovation Centre,  
University of Delhi. Member of the  
Vice-Chancellor nominated Empowered  
Committee to formulate the syllabus of  
B.Sc. (H) Mathematics, University of Delhi.

DATE: 16TH APRIL, 2021  
LOGIN TIME: 10:30 AM  
TIME: 11 AM-12 PM  
PLATFORM: ZOOM APP

*E-certificates will be provided to all the participants.*

Registration Link: <https://forms.gle/PtjnCsXnupXw8j368>

Ms. Geeta & Dr. Rashmi  
(Convenors)

Dr. Ritu Arora  
(Teacher In-charge)

Prof. Swati Pal  
(Principal)

For queries, contact: Pranika: 9910808602 | Srashti: 8171420207

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# Key points in NEP 2020

Pedagogy must evolve to make education more



- experiential
- holistic,
- integrated
- inquiry-driven
- discovery-oriented
- learner-centred
- discussion-based
- flexible
- enjoyable.

sonali 19math1... shobhabagai Awaz Yadav Apoorva Ritu Arora

Unmute Start Video Security Participants 241 Chat Share Screen Pause/Stop Recording Reactions Leave

*National Webinar on National Education Policy 2020 and Its Implications on Mathematics on 16<sup>th</sup> April, 2021.*

- An International Webinar entitled “Image Compression and Linear Algebra” by Prof. Rekha Thomas, Walker Family Endowed Professor in Mathematics, University of Washington, Seattle was organised on 28<sup>th</sup> January, 2021 on Zoom. The webinar was attended by more than 300 participants from different domains and colleges.

	<b>Janki Devi Memorial College</b> (UNIVERSITY OF DELHI) <b>Department of Mathematics</b> presents	
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<h1 style="margin: 0;">International Webinar</h1> <p style="margin: 0;">on</p> <h1 style="margin: 0;">Image Compression and Linear Algebra</h1> <p style="margin: 0;">by</p> <h2 style="margin: 0;">PROF. REKHA THOMAS</h2> <h3 style="margin: 0;">28th January 2021, Thursday</h3> <p style="margin: 0;">Login Time: 09:30 AM (IST)</p> <p style="margin: 0;">Time: 10:00 AM- 11:00 AM (IST)</p> <p style="margin: 10px 0 0 0; color: #e91e63;">Please join via Zoom</p> <p style="margin: 0;"><a href="https://us02web.zoom.us/j/82867104936?pwd=K3dQRWFUdGJwdktaUmRVN21PQ3R1Zz09">https://us02web.zoom.us/j/82867104936?pwd=K3dQRWFUdGJwdktaUmRVN21PQ3R1Zz09</a></p> <p style="margin: 0;">Meeting ID : 828 6710 4936   Passcode : 932325</p> <p style="margin: 10px 0 0 0;"><i>E-certificates will be provided to all the participants.</i></p>	<h3 style="margin: 0;">ABOUT THE SPEAKER</h3> <div style="text-align: center;">  </div> <p style="margin: 5px 0;">Prof. Rekha Thomas received her Ph.D. in Operations Research from Cornell University. One of her postdoctoral positions was at the Cowles Foundation for Economics at Yale University.</p> <p style="margin: 5px 0;">Her research interests are optimization and applied algebraic geometry.</p> <p style="margin: 5px 0;">She is a Professor of Mathematics at the University of Washington. She has been the Robert R. and Elaine F. Phelps Professor and she currently holds the Robert B. Warfield Jr. Faculty Fellowship.</p>
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<b>Coordinators</b> Ms. Geeta Dr. Rashmi Rani	<b>Convener</b> Dr. Ritu Arora	<b>Principal</b> Prof. Swati Pal
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For queries, contact : Pranika - 9910808602 | Srashti - 8171420207

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Every black & white photo is an array of pixels  
 Grey scales in a pixel can be recorded by  
 numbers from 0 → 255  
 black white

Example:



=

30	87
128	150
246	57

~

$$\begin{pmatrix} 30 \\ 87 \\ 128 \\ 150 \\ 246 \\ 57 \end{pmatrix}$$

Every b/w photo is a matrix/vector

Rekha Thomas

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*International Webinar on Image Compression and Linear Algebra on 28<sup>th</sup> January, 2021.*



- A National Webinar on “How We Can Secure Our Online Communication” by Dr. Dhananjay Dey, Associate Professor, Interim Dean (IPR) & Dean (A), IIIT, Lucknow (Former Scientist 'E', DRDO, Delhi) was organised on 19<sup>th</sup> November, 2020 on Zoom. The programme consisted of over 220 participants from different domains and colleges. The event turned out to be a great success as each participant benefited immensely from the webinar.



**Janki Devi Memorial College**  
(UNIVERSITY OF DELHI)

**Department of Mathematics**  
presents

**National Webinar**  
on  
**How We Can Secure Our  
Online Communication**



**Dr. Dhananjay Dey**  
Associate Professor,  
Interim Dean (IPR) & Dean (A),  
IIIT, Lucknow, India.

**19th November 2020, Thursday**  
Login Time: 10:30 AM  
Time: 11:00 AM- 12:00 PM  
Platform: Zoom app

***E-certificates will be provided to all the participants.***

For queries, contact:  
Pranika : 9910808602  
Srashti : 8171420207

**Prof. Swati Pal**  
(Principal)

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### Secure Communication

## Communication Process

```
graph LR; A[Text/Speech/  
Fax/Image] --> B[Encoding]; B --> C[Compression]; C --> D[Error Control]; D --> E[Modulation]; E --> F[Wired or Wireless];
```

The diagram illustrates the communication process as a linear sequence of six steps: Text/Speech/Fax/Image, Encoding, Compression, Error Control, Modulation, and Wired or Wireless. The steps are arranged in two rows, with the first three steps in the top row and the last three steps in the bottom row. Arrows indicate the flow from left to right in each row, and a vertical arrow connects the end of the top row to the start of the bottom row.

213 Participants Share Screen Chat More Leave

*National Webinar on How We Can Secure Our Online Communication on 19<sup>th</sup> November, 2020.*

- A **National Webinar** on "**Impact of Diet on Health and Immunity**" by **Dr. Richa Garg**, a renowned Dietician based in Delhi and Founder of Arogyam Nutrition was organised on 08<sup>th</sup> October, 2020 on Zoom. The programme saw an overwhelming response from the audience with over 375 attendees from different domains and colleges. The event turned out to be a great success as each participant benefited immensely from the webinar.





**JANKI DEVI MEMORIAL COLLEGE**  
(University of Delhi)



*IQAC and Department of Mathematics*  
*invite*

*Students, Faculty and Non-Teaching staff to*

## **National webinar** **on**

**IMPACT OF DIET ON HEALTH AND  
IMMUNITY**



**Speaker**  
**Dr. Richa Garg**  
(Nutrition and Wellness  
Consultant)  
**Founder-Arogyam Nutrition**  
**Since 2009**

**E-certificates will be provided to all the participants.**

**OCTOBER 8, 2020 | 12:00-01:00PM**  
**LOGIN TIME-11:30AM | ZOOM APP**

**For queries, contact**  
**Bhavika - 7897677865;**  
**Devyani - 7500078481**

**Chief Patron**  
**Prof. Swati Pal**  
(Principal)









Zoom Meeting You are viewing Richa Garg's screen View Options

Deepali Sharma Sashi Raghav Parth Sharma Annu 071 Annu... Vidushi Komal Sharma

## 5. EXCESSIVE SODIUM INTAKE

Regular intake of these food is the main cause of high sodium intake which leads to inflammation and triggers autoimmune response.



Pickle Papad Chips Packed & Salted Nuts & seeds

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Type here to search 12:37 08-10-2020

*National Webinar on Impact of Diet on Health and Immunity on 08<sup>th</sup> October, 2020.*