



# GURU NANAK COLLEGE(AUTONOMOUS)

Affiliated to University of Madras and Re-Accredited at "A" Grade by NAAC

Guru Nanak Salai, Velachery, Chennai – 600042.

## School of Sciences

### Department of Mathematics (Shift II)

<b>Event Title</b>	<b>Applicable Mathematical Tools in Science and Engineering</b>	
<b>Category</b>	<b>National Webinar</b>	
<b>Date</b>	<b>From :30.07.2020</b>	<b>To :30.07.2020</b>
<b>No. of Resource Person</b>	<b>1</b>	
<b>No. of Participants</b>	<b>135</b>	

#### (1) Report Description

The National Level webinar on 'Applicable Mathematical Tools in Science and Engineering' was delivered by the resource person "Dr.R.Selvamani, Assistant Professor, Department of Mathematics, Karunya University, Coimbatore. Around 140 members of Students, Research scholars and Faculties from Guru nanak College and other educational institutes from various part of the nation participated in the seminar and the event went on successfully. The webinar had an excellent coverage of Mathematics as a tool in various domains of life.

#### (2) Report

- Use of Mathematical models and Mathematical tools was explained
- Selection of various mathematical tools was overviewed.
- Various mathematical models in nature was discussed.
- Complex number in Smart math tool was introduced.
- Various fields of Mathematics like Probability, Differential equation, complex Algebra, vector calculus as tools in Machine learning, Nano Science were detailed.
- Use of Matrix in Matlab was explained.
- Importance of suitable selection of Mathematical tool was discussed.
- All doubts of participants about the ideas discussed in the webinar was addressed by the resource person.

### (3) Invitation Copy



The poster features a pink background with mathematical formulas and a portrait of Dr. R. Selvamani. The text is centered and includes the college name, department, webinar title, speaker details, date, and time.

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**DEPARTMENT OF MATHEMATICS (SHIFT – II)**

**Presents Webinar on**

**APPLICABLE MATHEMATICAL TOOLS IN SCIENCE AND ENGINEERING**

**Dr.R Selvamani, M.Sc.,M.Phil.,Ph.D**  
Assistant Professor,  
Department of Mathematics,  
Karunya University,  
Coimbatore 641114

Date : 30.07.2020, Time : 2.00pm to 3.00pm

Open to all Students and Faculty members  
REGISTRATION LINK: <https://forms.gle/dd743GgMZh68yocz7>  
Registration is free and E- certificate will be provided to all participants

No Registration fee

Dr. M.G.Ragunathan  
Principal

Mr Manjit Singh Nayar  
General Secretary & Correspondent

### (4) Certificate Copy



The certificate has a blue and white geometric background. It includes the college logo and name, followed by the title 'CERTIFICATE OF PARTICIPATION' in large red letters. The text certifies the participation of a student in a specific webinar on July 30, 2020. It features two signature lines with names and titles.

**Guru Nanak College (AUTONOMOUS),**  
Affiliated to the University of Madras  
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Guru Nanak Salai, Velachery, Chennai-42

**CERTIFICATE OF PARTICIPATION**

*This certifies that*

{{Full Name}} {{other identifier}}  
{{other identifier2}}

has participated in the National webinar on "**APPLICABLE MATHEMATICAL TOOLS IN SCIENCE AND ENGINEERING**"  
organised by **Department of Mathematics(Shift-II)** on 30 July 2020.

**Dr. M. G. RAGUNATHAN**  
PRINCIPAL

**Mr. MANJIT SINGH NAYAR**  
GENERAL SECRETARY &  
CORRESPONDENT

### (5) Photos

**Applicable Mathematical Tools  
in Science and Engineering**

**APPLIED AND PURE MATHEMATICS**

**Dr. R. Selvamani,  
Assistant Professor,  
Dept of Mathematics,  
Karunya University,  
Coimbatore-641114**

meet.google.com is sharing your screen. [Try Audio](#) [Help](#)

Dr. M. G. Raju

The slide features a blue header with the title in red and white. Below the title is a logo for 'APPLIED AND PURE MATHEMATICS' showing a stylized head profile with a sun and a flame. To the left is a diagram of a plant with a red fruit. To the right is a colorful 3D lattice structure. At the bottom, there is a small blue button that says 'Try Audio' and a 'Help' link.

REC

meet.google.com/hu...gpo...cyn...adhyas...t

APPLICABLE MATHEMATICAL TOOLS I...

APPLICABLE MATHEMATICAL... X

People (105) Chat (10)

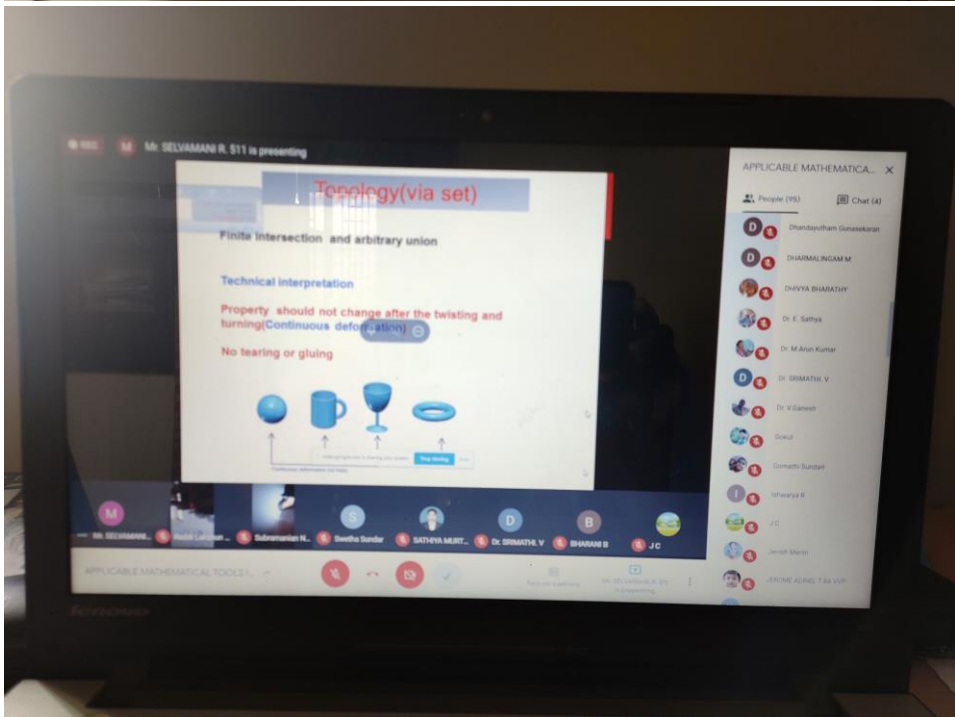
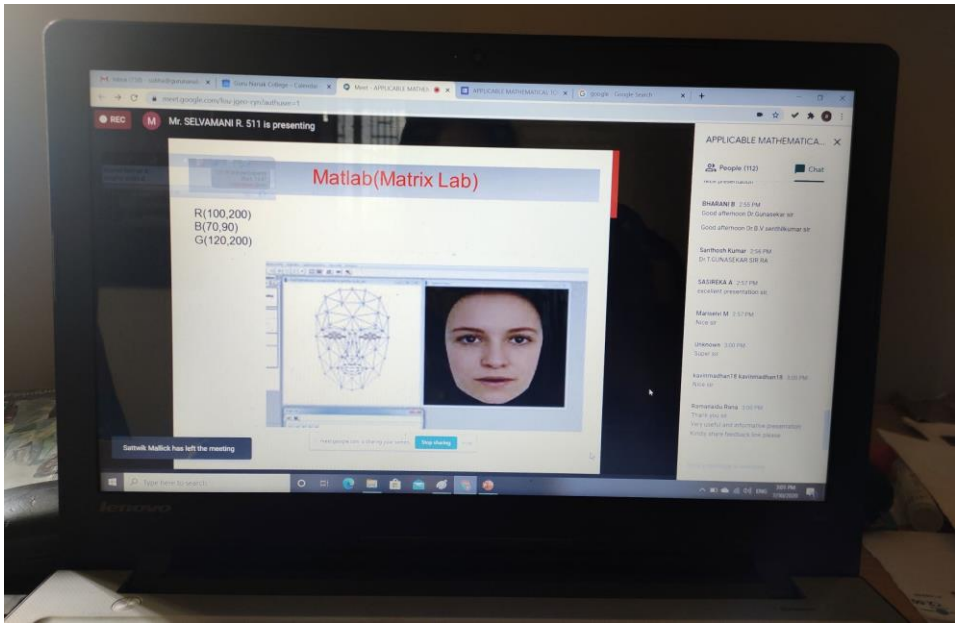
- M Manojulal
- M MEENAL NARAYANAN
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- M MONDIA T
- SE SELVAMANI R. 011
- Naga Rameshwar Reddy
- Aruntharaj Thangavel
- Santhoshkumar Jeyaraman
- P PALLA TS
- P Prasad Babu
- P Prasad Babu

n varan was not allowed to join this meeting

APPLICABLE MATHEMATICAL TOOLS I...

Take an action... [Present now](#)

The image shows a computer monitor displaying a Google Meet interface. The main video feed shows a man with glasses and a dark shirt, identified as Dr. R. Selvamani, speaking. The interface includes a 'REC' indicator in the top left, a browser address bar with the meeting URL, and a 'People' list on the right side with 105 participants. A notification at the bottom left states 'n varan was not allowed to join this meeting'. The bottom of the screen shows the Windows taskbar with various application icons.



REC Mr. SELVAMANI R. 511 is presenting



## FUZZY Mathematics

0-No                      1-Yes

0.85-may be

$Dy/dt = f(t, y, k); \quad y(0) = c;$

- ❖ Controlling amphibian flight
- ❖ Model the problems in uncertain state

APPLICABLE MATHEMATICA... X

People (103) Chat (1)

- S Subramanian Rotarajan
- S Swarnalata Sahu
- S Swetha Sunder
- T T SAKTHI PRIYA
- T Tambunan Vivanathan
- T THILAKKAJ EDURAI
- U Unknown
- V V K Santhi
- V Venkatesh Sundararaman
- V Vengalil Karthika
- V Venkatesh Sathya
- V VIKAS PRAKASH S
- V Vignesh



REC Mr. SELVAMANI R. 511 is presenting

## Matrix

**Matrix-** Beautification of elements in rows and columns

**Determinant-** Value of the matrix

**Eigen value & Eigen vector-** Magnitude and rotation

APPLICABLE MATHEMATICA... X

People (113) Chat

SHARANI B 2:10 PM  
Good afternoon Dr Ganasekar sir

Good afternoon Dr B V Senthikumar sir

Sandesh Kumar 2:18 PM  
Dr T GUNASEKAR SIR SIR

SADREKA A 2:17 PM  
Excellent presentation sir

Manishal M 2:10 PM  
Nice sir

Unknown 2:10 PM  
Super sir

Karthikashan18 Karthikashan18 2:10 PM  
Nice sir

Samayakshi Prasa 2:10 PM  
Thank you sir

Very useful and informative presentation  
Thank you for sharing the slides