



**Sri G.V.G. Visalakshi College For Women, Udumalpet - 642128**

Autonomous and Affiliated to Bharathiar University, Coimbatore

Accredited at A+ Grade by NAAC (Fourth cycle)

An ISO 9001:2015 Certified Institution

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**Department of Mathematics (Aided)**

**DBT Sponsored Online Webinar on**

**Mathematics in Modern Era and Ancient Tamil Literature**

**26.10.2021**

**SRI G.V.G VISALAKSHI COLLEGE FOR WOMEN**  
**(Autonomous)**  
Accredited at A<sup>+</sup> grade by NAAC (4<sup>th</sup> cycle)  
An ISO 9001:2015 Certified Institution Udumalpet-642128

**DEPARTMENT OF MATHEMATICS**  
Organises  
**DBT Sponsored**  
**Online Webinar**  
on  
**“ MATHEMATICS IN MODERN ERA AND ANCIENT  
TAMIL LITERATURE ”**

Date: 26.10.2021 Time: 11.30-12.30 noon.

  
**Resource Person**  
**Dr.S.KRISHNA PRABHA**  
**ASSISTANT PROFESSOR IN MATHEMATICS**  
**PSNA COLLEGE OF ENGINEERING AND**  
**TECHNOLOGY**  
**DINDIGUL**

**Meeting Link:**  
<https://meet.google.com/hwh-bgew-ojx>  
**Dr.P.Jayalakshmi, Asst. Prof.** **Mrs. S.Kalaiselvi** **Dr.N.Rajeswari**  
**Programme Co-ordinator** **Head of the Department** **Principal**

**Organizing Committee**

Dr.R.Angel Joy, Associate Professor	Mrs.R.D.Beulah, Assistant Professor
Mrs.B.Kalaiselvi, Associate Professor	Mrs.J.P.Thempaavai, Assistant Professor
Mrs.P.Padmavathi, Assistant Professor	Mrs.D.Kavitha, Assistant Professor
Dr.V.Pankajam, Assistant Professor	Mrs.S.Deivanayaki, Assistant Professor
Dr.A.Kalavathi, Assistant Professor	Ms.S.Saranya, Assistant Professor
Dr.R.Baranitha, Assistant Professor	Mrs.A.Kowsalya, Assistant Professor
Dr.V.Vijayalakshmi, Assistant Professor	Ms.SP.Abirami, Assistant Professor

# REPORT

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WEBINAR

26.10.2021

Resource Person : Dr. S. Krishna Prabha  
Assistant Professor in Mathematics  
PSNA College of Engineering and Technology  
Dindigul

Topic : Mathematics in Modern Era and Ancient Tamil  
Literature

Time : 11:30 - 12:30 noon

Mode : Google Meet [<https://meet.google.com/bwh-bgea-gix>]

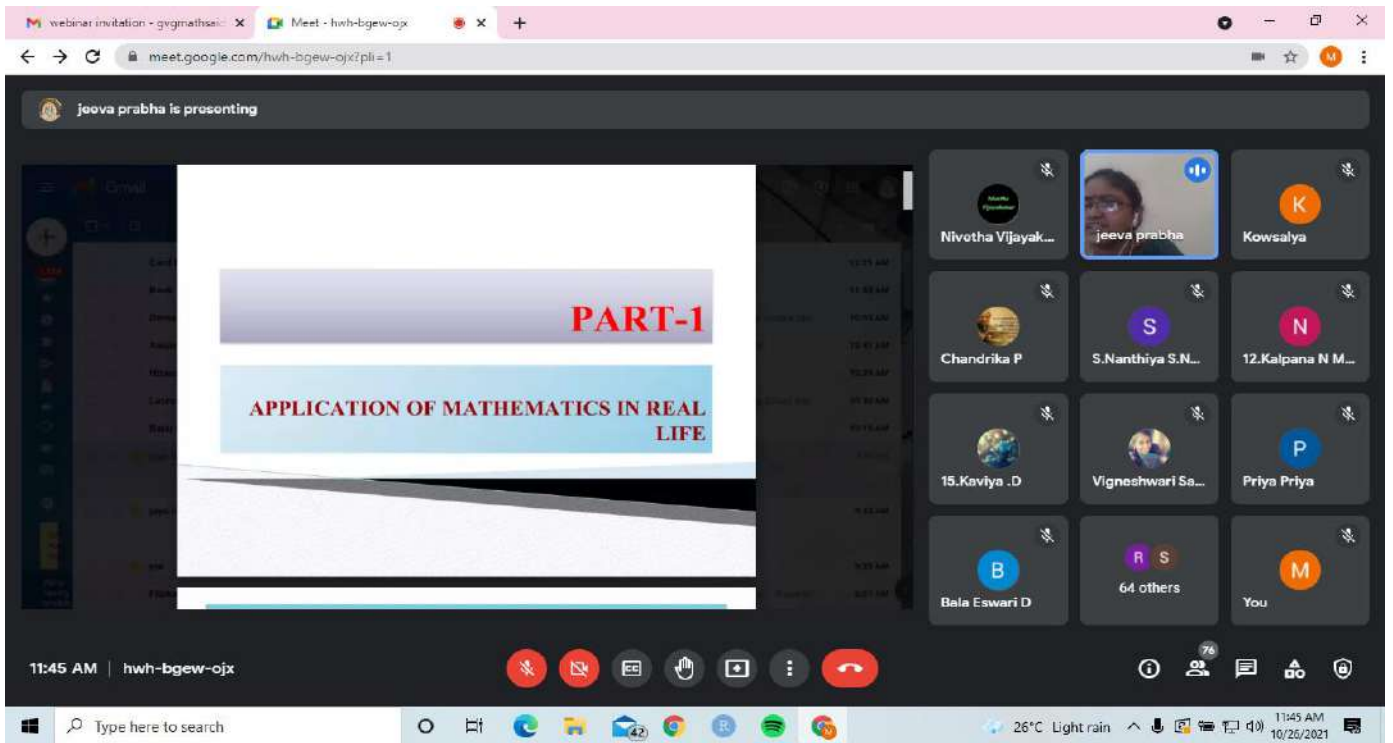
The webinar commenced with the prayers song followed by welcome address by Ms. P. Padmarathi, Assistant Professor in Mathematics. The speaker gave a brief presentation on Mathematics in various fields. She highlighted several notable applications of Mathematics in predicting the weather, MRI and Tomography, internet and phones, epidemics, cryptography, satellite and communication etc., The students were enlightened with the various applications of Mathematics by inductive approach. Mathematical applications given through Sanga Tamil Illakiyam was interesting. There were some positive take-away from the webinar. The webinar was concluded by the vote of thanks by M.C. Poornashree, II B.Sc Mathematics. The webinar was attended by around 96 participants.

S. Kalaiselvi  
Head of the department

Department Co-ordinator : P. S. S. S.

Rajawani 10  
Principal 26/10/21  
PRINCIPAL  
SRI GYO VISALAKSHI COLLEGE  
FOR WOMEN (AUTONOMOUS)  
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# Screenshots:



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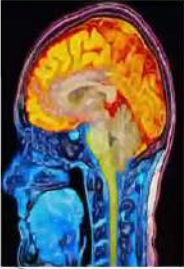


webinar invitation - gygnathas... Meet - hwh-bgew-ojx

meet.google.com/hwh-bgew-ojx?pli=1

Joeva prabha is presenting

### MRI and Tomography



- MRI scanners can create three-dimensional images of the human body by taking countless two-dimensional "snapshots" from different directions.
- The process of recovering the original 3-dimensional model using these snapshots is called *tomography* – and it wouldn't work without advanced mathematics such as *Radon Transforms* (integral transform). Mathematics is quite literally saving life's.

Nivetha Vijayak...

jeeva prabha

Dr.R.Angel Joy ...

Chandrika P

S.Nanthiya S.N...

Hema Latha

17.Kaviya M.S. ...

Vigneshwari Sa...

Priya Priya

Bala Eswari D

53 others

You

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webinar invitation - gygnathas... Meet - hwh-bgew-ojx

meet.google.com/hwh-bgew-ojx?pli=1

Joeva prabha is presenting

### Internet and Phones



Both internet and phone lines form a gigantic network which allows users to exchange data – whether websites or calls. All users are connected by countless links which have a certain capacity.

Without the mathematics of *queueing theory* it would be impossible to guarantee a reliable service. Mathematical models using *Poisson processes* all but guarantee that you will hear a dial tone when making a phone call.

**Routing internet connections** is much more difficult – requests arrive at an unpredictable rate and have a more variable duration. This led to the development of *packet-switching*: all data (websites emails or files) is split into small "packets" which are transmitted independently. This makes the network more efficient.

Some believe that the mathematics of *Fractals* can help create a much more reliable internet service in the future.

Nivetha Vijayak...

jeeva prabha

Dr.R.Angel Joy ...

Chandrika P

S.Nanthiya S.N...

Hema Latha

17.Kaviya M.S. ...

Vigneshwari Sa...

Priya Priya

Charu Koshini

53 others

You

Janani T has left the meeting

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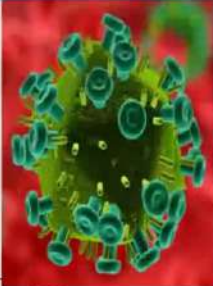
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meet.google.com/hwh-bgew-ojx?pli=1

Joeba prabha is presenting

### Epidemics Analysis



When a new epidemic starts one can fear that it will not stop since there are always new cases. This is not what mathematics says. The important quantity is the **reproductive ratio**,  $R_0$ , which corresponds to the mean number of individuals infected by each infectious person. **If  $R_0 < 1$ , then the epidemic dies, while it spreads if  $R_0 > 1$ .** The knowledge of  $R_0$  guides the strategy to control the epidemic. In particular, in case of limited resources (for instance not enough vaccines for everyone), the goal is to use these resources to decrease  $R_0$  below 1.

### Maps of the Earth

Nivetha Vijayak...

jeeba prabha

Dr.R.Angel Joy ...

Chandrika P

S.Nanthiya S.N...

Hema Latha

17.Kaviya M.S. ...

Vignoshwari Sa...

Priya Priya

Bala Eswari D

51 others

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Joeba prabha is presenting

### Maps of the Earth



Representing our spherical three-dimensional Earth on a flat two-dimensional map is difficult. We always have to distort the world a little by stretching or squishing certain areas. But mathematics can help! **Cartography is the study of making maps.**

Maths helps cartographers with **map scale, coordinate systems, and map projection.** **Map scale is the relationship between distances on a map and the corresponding distances on the earth's surface expressed as a fraction or a ratio.** **Coordinate systems are numeric methods of representing locations on the earth's surface.**

Nivetha Vijayak...

jeeba prabha

Dr.R.Angel Joy ...

Chandrika P

S.Nanthiya S.N...

Hema Latha

17.Kaviya M.S. ...

Vignoshwari Sa...

Priya Priya

Bala Eswari D

50 others

You

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