

**A report on**  
**“TWO DAYS SEMINAR ON RECENT  
TRENDS IN NUMBER THEORY”**  
**(RUSA- Faculty Improvement Programme)**  
**December 01-02, 2025**



**Organized by**  
Department of Studies in Mathematics, University of Mysore,  
Manasagangotri, Mysuru - 570 006, India.

The RUSA Faculty Improvement Programme namely, Two days seminar on “**Recent Trends in Number Theory**” was organised at Department of studies in Mathematics, University of Mysore, Manasagangotri, Mysuru.

The lectures delivered during this seminar are as follows:

<b>MONDAY, 01.12.2025</b>		
09:30 AM - 09:45 AM	<b>Registration</b>	
09:45 AM – 10.00 AM	<b>Inauguration</b>	
10:00 AM – 11:30 AM	Dr. Soumya Das IISc, Banglore	Topic: Primes, Distributions and Gaps.
11:30 AM – 11:45 AM	<b>Tea Break</b>	
11:45 AM – 1:15 PM	Dr. H. N. Ramaswamy University of Mysore, Manasagangotri, Mysuru	Topic: Gauss Law of Quadratic Reciprocity.
1:15 PM – 2:00 PM	<b>Lunch Break</b>	
2:00 PM – 3:30 PM	Dr. Soumya Das IISc, Banglore	Topic: Determining Modular forms by their Fourier coefficients.
03:30 PM – 03:45 PM	<b>Tea Break</b>	
03:45 PM – 05:15 PM	Dr.Shivarajkumar Professor NIE, Mysuru.	Topic: On the distribution of Quadratic residues modulo prime $p$ .

**TUESDAY, 02.12.2025**

10:00 AM – 11:30 AM	Dr. Bhargava S. University Of Mysore, Manasagangotri, Mysuru	Topic: A cursory look at Jacobi's & Ramanujan's Theories of theta and elliptic functions.
11:30 AM – 11:45 AM	<b>Tea Break</b>	
11:45 AM – 1:15 PM	Dr. Pradeep C. R. CIT, Gubbi, Tumakuru.	Topic: Cryptography: Art of secret communication I.
1:15 PM – 2:00 PM	<b>Lunch Break</b>	
2:00 PM – 3:30 PM	Dr. Pradeep C. R. CIT, Gubbi, Tumakuru.	Topic: Cryptography: Art of secret communication II.
03:30 PM – 03:45 PM	<b>Tea Break</b>	
03:45 PM – 05:15 PM	Dr. Yogananda C.S. JSS Science and Technology University, Mysuru.	Topic: Ramanujan and Fermat's last theorem.

# DAY 1:

## INAGURATION



## Session 1



## Session 2



## Session 3:



## Session 4





# DAY 2

## Session 1



## Session 2



## Session 3:



## Session 4:



## CERTIFICATE DISTRIBUTION



GROUP PHOTO



Mysuru, Karnataka, India  
Kuvempu Marg, Manasagangothi, Mysuru, Karnataka 570006,  
India  
Lat 12.309463, Long 76.623617  
Tuesday, 02/12/2025 17:25 GMT+05:30  
Note : Captured by GPS Map Camera