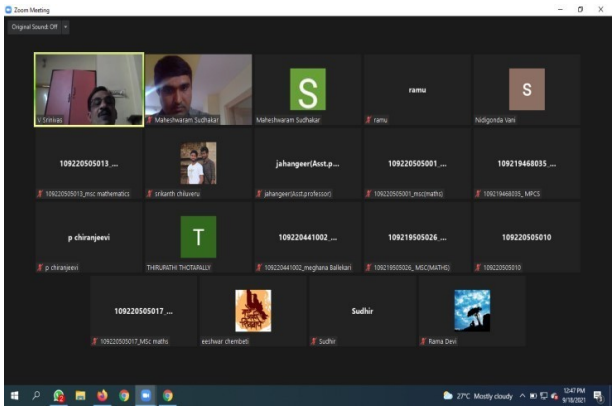
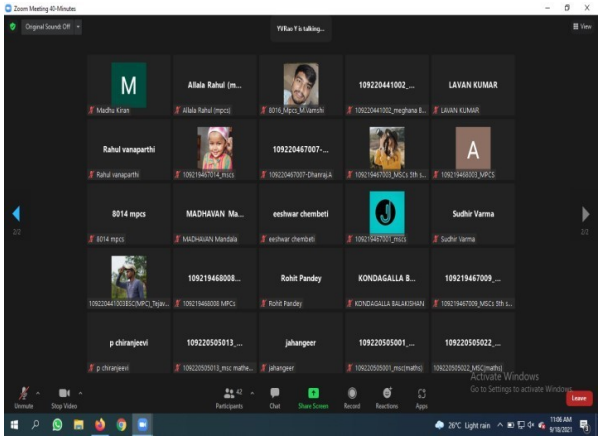
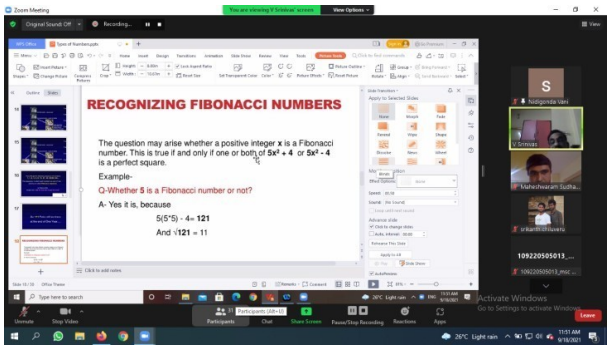
# HINDI MAHAVIDYALAYA
## (ARTS, COMMERCE, SCIENCE & PG CENTRE)
## (Autonomous & NAAC RE-ACCREDITED)
## PROFORMA FOR THE ACTIVITY REPORTS
## (Extension lecture/Guest lecture/Workshop)

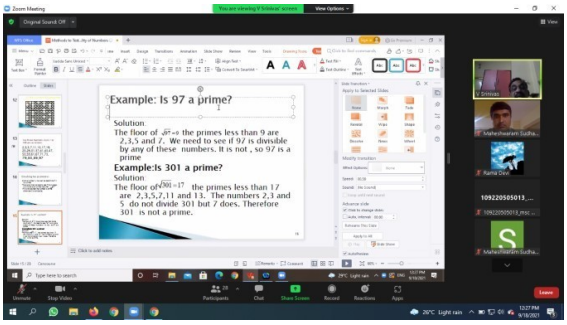
**Enclosures: Circular/Notice/Photographs/List of Students with signatures / Feedbacks (If any)**

| | |
|---|---|
| Department | Department of Mathematics |
| Webinar Topic | Applications of Number Theory |
| Resource Person | Prof. V Srinivas, Department of Mathematics, University College of Science, Saifabad, Hyderbad |
| Name (s) of the Teachers(s) involved | Smt. G.Srivani<br>Smt. T. Ramadevi<br>Sri. M.Sudhakar<br>Sri. T. Thirupathaiah |
| No. of Students | 85 |
| Date | 18/09/2021 |
| Objectives | The student will able to :<br>1. Identify and apply various properties of and relating to the integers including the Well-Ordering Principle, primes, unique factorization, the division algorithm, and greatest common divisors.<br>2. Identify certain number theoretic functions and their properties.<br>3. Understand the concept of a congruence and use various results related to congruences including the Chinese Remainder Theorem. |
| Report | 1. He explained Well-Ordering Principle with different examples.<br>2. He explained unique factorization, the division algorithm with examples and applications.<br>3. He explained concept of a congruence with examples and applications like Chinese Remainder Theorem with examples.<br>4. He explained recognized Fibonacci numbers with suitable examples and their applications.<br>5. He explained Golden Ratio with appropriate examples like human body, Picasso painting and so on. |
| Outcomes | After this webinar, students should be understand to:<br>• find quotients and remainders from integer division<br>• apply Euclid's algorithm and backwards substitution<br>• understand the definitions of congruences, residue classes and least residues<br>• determine multiplicative inverses, modulo n and use to solve linear congruences.<br>• Students also verify the Golden Ratio in beautiful images, Buildings and so on. |





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(AUTONOMOUS & NAAC RE-ACCREDITED)
Arts and Commerce, Science and P.G. Centre
Affiliated to Osmania University
Nallakunta, Hyderabad – 500044.

## Department of Mathematics Presents Webinar on

## NUMBER THEORY AND ITS APPLICATIONS

**SPEAKER : Dr. V.SRINIVAS**
Senior Assistant Professor , Department of Mathematics ,
University College of Science , OU, Saifabad, Hyderabad

Date: 18 – 09 – 2021
Time: 11.00 am

Zoom Meeting ID
ID: 691 326 4695
Password: maths

Dr. Y. V. Rao
Principal
Smt. Ashwini Sanpurkar
Vice - Principal

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Smt. T. Ramadevi
Mr. M.Sudhakar
Mr. T. Thirupathaiah