

## माधव प्रौद्योगिकी एवं विज्ञान संस्थान, ग्वालियर (म.प्र.), भारत MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR (M.P.), INDIA

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Deemed University
(Declared under Distinct Category by Ministry of Education, Government of India)
NAAC ACCREDITED WITH A++ GRADE

#### NATIONAL MATHEMATICS DAY CELEBRATION

(22 December 2024)

by

**Department of Electronics Engineering** 

and

**IETE Bhopal Chapter** 

**EXPERT TALK: GRAPH THEORY: THE MAGIC OF POINTS AND LINES** 

and

MATHMANIA CHALLENGE (Mathematics Quiz)

An Expert Talk on "Graph Theory: The Magic of Points and Lines" was organized by the IETE Bhopal Chapter in collaboration with the Department of Electronics Engineering, MITS Gwalior, on 22 December 2024.

The session featured **Dr. Priyanka Singh**, a distinguished mathematician from the **Department of Mathematics**, **Pandit Deendayal Energy University (PDEU)**, **Gandhinagar**, as the resource person. Dr. Singh earned her Ph.D. in Mathematics from **IIT Kharagpur** and demonstrated her academic brilliance by securing an **All-India Rank of 38** in **GATE 2011**. She previously served as an Assistant Professor at **Siksha 'O' Anusandhan University**, Bhubaneswar, Odisha. Holding an **M.Sc. in Mathematics** from **Banaras Hindu University (BHU)** and a **B.Sc. in Computer Science** from the **University of Delhi**, Dr. Singh has consistently excelled throughout her academic journey.

Her specialization lies in **Graph Theory**, a field where she has contributed significantly through research and innovative applications. Her dedication to teaching and research has established her as a respected mentor and scholar in the field.

The event began with a **welcome address** by **Student Coordinator Soumya Dubey**. Coordinators **Soumya Dubey** and **Medhavi Agrawal** then introduced Dr. Priyanka Singh to the audience and invited her to commence the session.

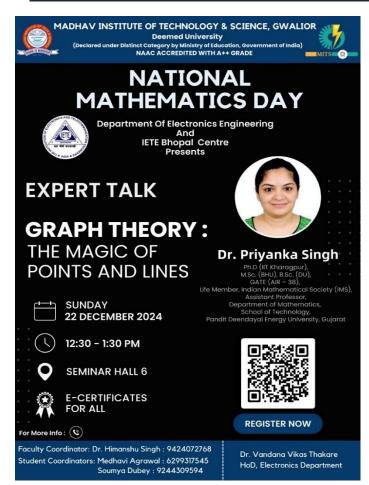
Dr. Singh delivered an insightful and engaging talk, explaining the fundamentals of **Graph Theory** and its diverse applications. She elaborated on practical problems such as the **facility location problem**, **timetable scheduling**, **solving Sudoku**, and **mobile radio frequency assignment**. She also discussed real-world applications, including **electronic circuits**, **railway maps**, **urban city modeling**, and **pipeline design**. Encouraging students to explore the fascinating uses of Graph Theory in everyday life, she inspired them to delve deeper into the subject.

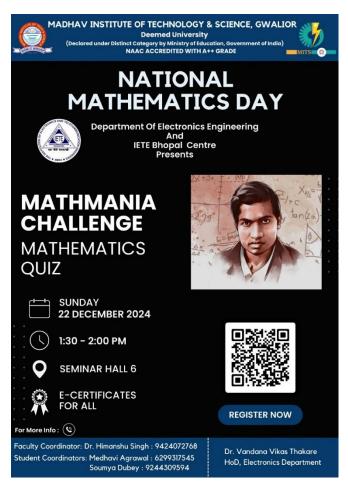
The session concluded with a **vote of thanks** delivered by **Dr. Himanshu Singh**.

Following the expert talk, the MATHMANIA Challenge (Quiz) was organized to provide students an opportunity to showcase their mathematical aptitude. This activity was coordinated by Dr. Himanshu Singh under the guidance of Dr. Pramod Kumar Singhal and Dr. Vandana Vikas Thakare (Head of the Department, Electronics Engineering).

The event successfully fostered curiosity and enthusiasm for mathematics among the participants, making it a memorable and enriching experience.

### GLIMPSE OF THE EXPERT TALK AND MATHMANIA CHALLENGE (Mathematics Quiz)

















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National Methamatics Day

22-Dec-24

## Expert Lecture by Dr. Priyanka Singh

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1	Priyanshi Sharma	BTET2401097	Sharma
2	Lakshya pachauri	BTEL2401069	a.
3	Tanmay Agrawal	BTET2401139	Farmay
4	Suryakant Singh baghel	BTEL2401130	Dury
5	Muhammad Raihaan	BTAI2401043	MADOS
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13	Payal Rajput	BTET2401090	Conduct
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24	Rohit Sharma	BTET2401107	Robit
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34	SHAURYA PRATAP SINGH CHAUHAN	BTEL2401121	AND
35	Sarthak jain	BTET2401114	( ) South
36	Harshit Singh Sikarwar	BTET2401054	Hawkit
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29	Gami Tiwani	BTET 2401048	
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Dr. Himanshu Singh (Event Coordinator) Dr. Vandana Vikas Thakare (HoD)