



**माधव प्रौद्योगिकी एवं विज्ञान संस्थान, ग्वालियर (म.प्र.), भारत**  
**MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR (M.P.), INDIA**  
Deemed University  
(Declared under Distinct Category by Ministry of Education, Government of India)  
NAAC ACCREDITED WITH A++ GRADE



**Department of Electronics Engineering  
and  
IETE Bhopal Chapter**

**Expert Talk  
on  
Emerging Antenna Technology: Fractional Substrate Integrated Waveguide  
Solutions for Size Miniaturization**

**by  
Dr. Meha Agrawal**

**(12 January 2025)**

**An Expert Talk on “Emerging Antenna Technology: Fractional Substrate Integrated Waveguide Solutions for Size Miniaturization” organized by the IETE Bhopal Chapter in collaboration with the Department of Electronics Engineering, MITS Gwalior, on 12 January 2025.**

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

Dr. Meha Agrawal is Postdoctoral researcher at Engineering and Optimization Center in Reykjavik University, Iceland. She is working on fractional SIW antennas for size miniaturization. Her research interests also include the controlling radiation pattern, cross polarization reduction in antennas, characteristic mode analysis, Eigen mode analysis, higher order modes, and circuit modelling of antennas.

She has published her work in many reputed international journals such as Nature Scientific Reports, IOP Journal of Physics, IEEE Antenna and Wireless Propagation Letters, Taylor and Franics, etc. along with patents and book chapters.

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

This activity was coordinated by **Dr. Himanshu Singh** under the guidance of **Dr. Pramod Kumar Singhal** (Dean, Quality Assurance) and **Dr. Vandana Vikas Thakare** (Head of the Department, Electronics Engineering).

In total, more than 50 participants have attended this talk through Google Meet. The event successfully fostered curiosity and enthusiasm for RF and microwave engineering among the participants, making it a memorable and enriching experience.

### GLIMPSE OF THE EXPERT TALK by Dr. Ravi Yadav

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Department Of Electronics Engineering  
&  
IETE Bhopal Centre  
Presents

## EXPERT TALK

### TITLE:

Emerging Antenna Technology:  
Fractional Substrate Integrated  
Waveguide Solutions for Size  
Miniaturization

### Dr. Meha Agrawal

Postdoctoral Fellow,  
Engineering and Optimization  
Center, Reykjavik University,  
Iceland

Dr. Meha Agrawal is Postdoctoral researcher at Engineering and Optimization Center in Reykjavik University, Iceland. She is working on fractional SIW antennas for size miniaturization. Her research interests also include the controlling radiation pattern, cross polarization reduction in antennas, characteristic mode analysis, Eigen mode analysis, higher order modes, and circuit modelling of antennas.

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**SUNDAY**  
**12 January 2025**

**12:00 PM – 01.00 PM**

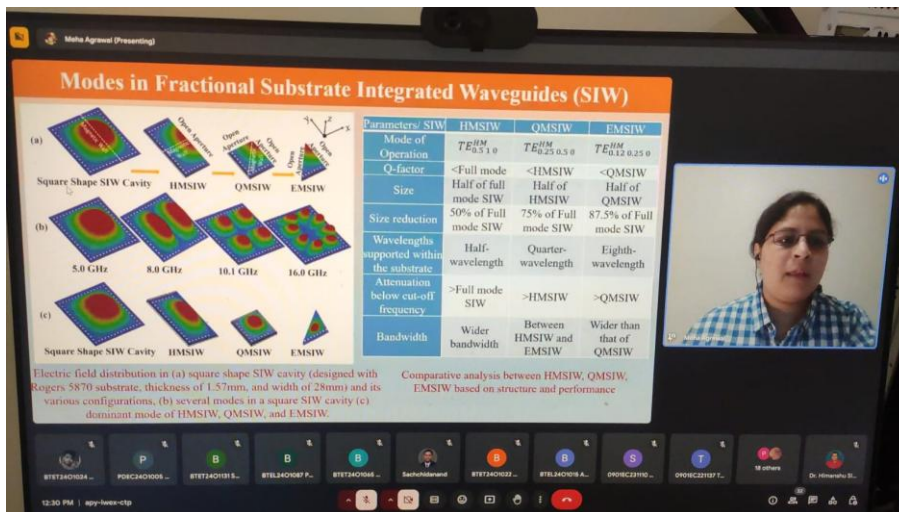
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FOR ALL**

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Faculty Coordinator: Dr. Himanshu Singh : 9424072768  
Student Coordinators: Soumya Dubey : 9244309594  
Medhavi Agrawal : 6299317545

Dr. Vandana Vikas Thakare  
HoD,  
Electronics Engineering Department



## List of Attendees

1	ANKITSAHU	37	Amit Rathore
2	Ankush Kumar	38	LALITHENDRA KURRA
3	Rohit Rawat	39	Sanjay Bisariya
4	Unnati bohare	40	Shubham Jain
5	Suhani Patel	41	Anuj sharma
6	Shruti Vishwakarma	42	Yashasav Khandelwal
7	Shivanshi Bhadauriya	43	Rishabh Sikarwar
8	Anugrah mishra	44	Parakh Gupta
9	Vikrant Singh Rajput	45	Tarun Kushwaha
10	Rahul Jadhav	46	Ayush Rahate
11	Satyam Gupta	47	PAYAL UPADHYAY
12	Mradul Garg	48	Archit jha
13	SOUMYA DUBEY	49	Aman kaurav
14	Prakriti Krishna Pal	50	Diwakar Sharma
15	Vidhi Dixit	51	Kuldeep Singh
16	Ajay Dhakad	52	Swayam sahu
17	Suhani tomar	53	Sonali Dhakad
18	Deepankar Singh Rawat	54	NAVDEEP SHAKYA
19	Khushi Dhakad	55	Aditya Raj sahu
20	Ayush yadav	56	Aniket Sharma
21	Lokendra Pratap Singh	57	Rajwardhan singh
22	Ankit Singh Parihar	58	Supriya Gautam
23	Sourabh Patidar	59	Siddharth Sharma
24	Ritik Jain	60	Krish soni
25	Shreyansh Jain	61	Hitesh Jhala
26	Vedika Singh	62	Aakash kushwah
27	Monika Sahu	63	ABHAY YADAV
28	Rachit Jain	64	Armaan Patel
29	Deepak	65	Gaurav Singh Chauhan
30	HONEY KUSHWAH	66	Kunal verma
31	Sandeep Singh Gurjar	67	Lavanya Sachdev
32	Kshitij Kanungo	68	Rajat Sadana
33	Vansh Vishnoi	69	Sanavi Mokhriwale
34	Payal Rani	70	TANISHQ AGRAWAL
35	DEEPANSHU YADAV	71	Vivek Prasad
36	Sayani Bindai	72	Dev Datt Sharma



Dr. HIMANSHU SINGH



Dr. Vandana Vikas Thakare  
Head of the Department