

**MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE  
(UCG-AUTONOMOUS)**



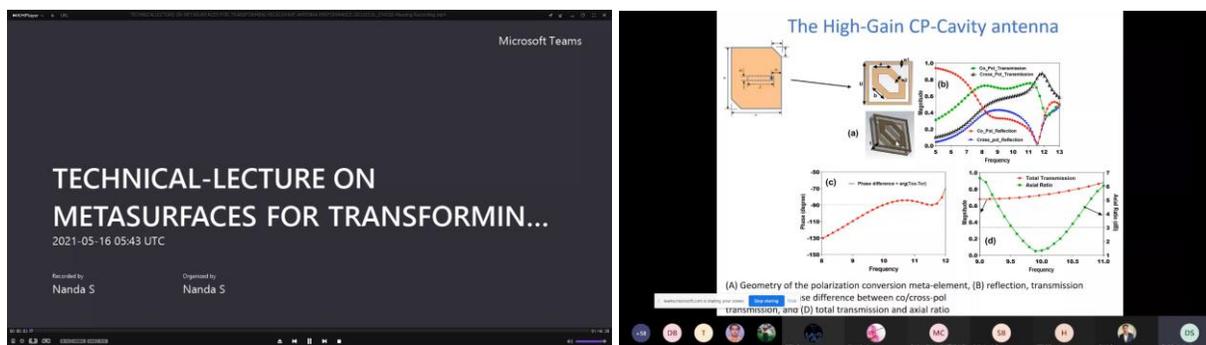
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World Bank Funded Institute, Recognised by UGC under the sections 2(f) and 12(B) of the UGC act 1956  
Recognised as Scientific & Industrial Research Organization by DSIR of DST  
**Department of Electronics & Communication Engineering**

Date- 20<sup>th</sup> May 2021

**Report on**

**Technical Lecture on Metasurfaces for Transforming Microwave Antenna Performance**

**Date- 16<sup>th</sup> May 2021**



**Report Submitted by:** Dr. Sambhudutta Nanda, Sr. Assistant Professor, Department of Electronics and Communication Engineering

**Number of Participants: 76 (Including Internal and External)**

Department of ECE organized an one day **Technical Lecture on Metasurfaces for Transforming Microwave Antenna Performance** on 16<sup>th</sup> May , 2021. This lecture is aimed to enlighten the participants with applications of Microwave engineering to Metasurfaces. In this lecture the application and use of metasurface to enhance the antenna performance is discussed extensively.

**Resource Person:** Dr. Rajanikanta Swain  
Senior RF Engineer (Antenna Design) at VVDN Technologies

Linked in Profile- <https://www.linkedin.com/in/dr-rajanikanta-swain-ab485379/>

- Dr. Swain is a Forward-thinking EM professional with a strong background in RF devices and antenna design leading to successful implementation of metasurface-based antennas in vehicular/strategic/cellular radio systems to achieve innovative radiation properties.
- Excellent team player and architect of fruitful collaborations in several aspects of basic/applied research with more than 18 peer-reviewed scientific publications.

- Worked 10 months as intern (EM simulation and fabrication/measurement of planar RF devices).
- 1.7 year as Research Fellow for Naval Research Board sponsored R & D project at Berhampur University (Development of EM cloak/wave manipulators to control wave propagation at RF/ microwave regime)
- Pursued PhD, funded by Dept. of Sc. and Tech. Govt. of India on development of wave manipulators (metamaterial/metasurface) for advanced antennas and to reduce RCS (2.9 year as Junior Research Fellow and 2 year as Senior Research Fellow).
- Working as Senior RF engineer at VVDN technologies from February 2020.

### About the Event:

The event was scheduled at 11.00AM. Dr Sambhudutta Nanda Addressed the event and introduced HOD, ECE, Dr S Rajasekaran. Dr S Rajasekaran did the welcome address to the resource person Dr Swain and Special Guest Dr Sandeep Chaturbedi, IEEE Hyderabad Section Chair. After that Dr Swain Started the lecture, which continued for around 2 hours. After the completion of the lecture a QnA session was there in which participants actively interacted with the resource person. At the end Dr Nanda casted vote of thanks and called off the event.

### There were some renowned persons in the meeting such as:

- Mr Sandeep Chaturvedi- IEEE Hyderabad Section Joint Chair
- Dr Verma- IEEE Hyderabad Section Ex-Chair
- Prof Anjan- NIT Warangal

A feedback form was shared with the participants to give their impression on the presentation. **Certificates were given to the participants, who successfully submitted the feedback form.** Sample feedback is attached with the report.

1	Timestamp	Email	Name (to be Printed on Certificate)	Organization Name (To be printed on Certificate)	Your rating for the Event	Anything, you want to share !!!
2	5-16-2021 12:11:47	19699A0439@mits.ac.in	G Kavyasree	Madanapalle Institute of technology & Science	5	It was really good
3	5-16-2021 12:11:55	19699a0478@mits.ac.in	Gali Sai Jayasri	Madanapalle institute of technology and science	3	
4	5-16-2021 12:12:00	17699A0461@mits.ac.in	D Nagasaideepthi	Madanapalle Institute of Technology and Science	3	
5	5-16-2021 12:12:23	18695A0443@mits.ac.in	K Fayaz	MITS	4	
6	5-16-2021 12:12:36	ppattnaik.cse.2018@nist	Purnasha Pattnaik	NIST, Berhampur	4	
7	5-16-2021 12:12:39	subbarayudub@mits.ac.in	B. Subbarayudu	MITS Madanapalli	5	
8	5-16-2021 12:12:42	srujana.nandigama@gmail.com	Srujana Vahini.N	Osmania University	5	
9	5-16-2021 12:12:49	19699a04c0@mits.ac.in	Yashwanth sai	Madanapalle institute of technology and sciences	4	
10	5-16-2021 12:12:54	18695a0437@mits.ac.in	PUTLURU NAGAMALLE	Technology & Science	4	
11	5-16-2021 12:13:06	19699a0493@mits.ac.in	Darshi Sravani	Technical lecture on metasurfaces	4	It was very useful
12	5-16-2021 12:13:28	18699A0461@mits.ac.in	GULURU MANOJ REDDY	Madanapalle Institute of Technology and Science	4	Content should be more clear
13	5-16-2021 12:13:33	penchalaprasad1111@gmail.com	RAVURU PENCHALA PR	MADANAPALLI INSTITUTE OF TECHNOLOGY AND SCIENCE	4	NO COMMENTS
						Thank you for arranging these webinars for free. Can you please