



## Workshop on

### **Different Techniques for Performance Improvement for Self-Multiplexing Antenna**

**Date: 06.06.2022**

**Resource Person Details :** Dr. Sounik Kiran Kumar Dash, Research Scientist, National University of Singapore.

**No. of Students and/or Faculty Participated:** 115

**Co-ordinator Details:** Dr. Harish Chandra Mohanta, Associate Professor & HOD, ECE

#### **Objective:**

1. To understand different techniques for performance improvements of self-multiplexing antennas.

#### **Detailed report of the activity:**

All wireless technology faces the challenges of signal fading, multipath propagation, interference, and limited spectrum. The channel through which the signal is propagated may consist of reflectors which will lead to multipath propagation causing multiple copies of the transmitted signal to arrive at the receiver after reflecting from the objects present in the channel. It results in constructive or destructive interference. This is a major problem in wireless communication as the result is signal distortion. To combat the effect of multipath propagation, interference or fading, many techniques have been proposed, much of which has been the antenna part of the radio system such as the use of multiple antennas at both the transmitter and receiver ends.

**It was an online event. 115 participants attended this event.**

# Photographs of the event:

Name	Location	Origin	Relative Permittivity	Relative Permeability	Conduct
diamond_01_001	SplLibrary	Materials	3.5	1	0
Duress Type 100 (Nylon 66)	SplLibrary	Materials	3.5	1	0
epoxy_01_001	SplLibrary	Materials	2.2	1	0
epoxy_Kevlar_01	SplLibrary	Materials	3.6	1.2	0
fr4	SplLibrary	Materials	4.4	1	0
fr4_epoxy	SplLibrary	Materials	4.4	1	0
gallium_arsenide	SplLibrary	Materials	12.9	1	0
SiC 4SiT4R 4H,2G,PG2300 (SiC)	SplLibrary	Materials	2.9	1	0
SiC 4SiH 1500 (SiC)	SplLibrary	Materials	3.12	1	0
SiC 4SiH 1612 (SiC)	SplLibrary	Materials	3.2	1	0
SiC 4SiH 2012 (SiC)	SplLibrary	Materials	3.2	1	0

take this attitude two point two

Dr. Soumik Kiran

004:17 0:25:38

let's make it okay test and now

PRASHANT PATNAIK

0:04:21 0:25:34

**Introduction**

(Conventional Dual-band Antenna)

(New Self-Diplexing Antenna)

Dr. Soumik Kiran

0:00:11 0:46:31

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**Brochure related to the event:**



**FDP/SDP on**  
**“ Different Techniques for Performance Improvement of**  
**Self-Multiplexing Antennas ”**

Date: - 6<sup>th</sup> JUNE 2022  
(9.30 AM to 11.30 AM IST)

*Organized by :*

Dept. of Electronics & Communication Engineering

**Resource Person**



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**Research Scientist**  
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*Shaping Lives... Empowering Communities...*

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