

# Program of Short course “RF, Microwave and Terahertz Imaging Techniques”

Organized by

Department of Electrical Engineering, IIT Kanpur (05.11.2016 – 09.11.2016)

Lecture Schedule, Venue: PBCEC Big Class Room, Visitors’ Hostel

Time	Name of Instructor	Topic
<b>DAY – 1, Saturday, 05.11.2016</b>		
09:30 – 10:30	<b>REGISTRATION</b>	
10:30 – 11:00	<b>INAUGURATION</b>	
<b>11:00-11:30</b>	<b>HIGH TEA</b>	
11:30 – 13:00	Prof. M J Akhtar, IIT Kanpur	RF, Microwave and Terahertz: Theory and Methods
<b>13:00 – 14:00</b>	<b>LUNCH BREAK</b>	
14:00 – 17:00	<b>LAB DEMONSTRATION (Microwave Imaging / Microwave Measurement Lab)</b>	
<b>DAY – 2, Sunday, 06.11.2016</b>		
09:30 – 11:00	Prof. A R Harish, IIT Kanpur	RF Antennas for Imaging Applications
<b>11:00-11:30</b>	<b>TEA BREAK</b>	
11:30 – 13:00	Prof. M J Akhtar & Prof. K V Srivastava, IIT Kanpur	Virtual Lab Presentation – RF and Microwave Characterization Lab
<b>13:00 – 14:00</b>	<b>LUNCH BREAK</b>	
14:00 – 17:00	<b>LAB DEMONSTRATIONS (Microwave Imaging / Microwave Measurement Lab)</b>	

<b>DAY – 3, Monday, 07.11.2016</b>		
09:30 – 11:00	Prof. S A Ramakrishna, IIT Kanpur	Metamaterials for THz / Infrared Imaging Detectors and Near Field Imaging
<b>11:00-11:30</b>		<b>TEA BREAK</b>
11:30 - 13:00	Prof. M J Akhtar, IIT Kanpur	THz Spectroscopy and Imaging Techniques
<b>13:00 – 14:00</b>		<b>LUNCH BREAK</b>
14:00 – 17:00	Demonstration by CST Team (Mr. Rijin Saseendran & Mr. Pankaj Jha )	Numerical techniques in CST for Microwave and RF applications
<b>DAY – 4, Tuesday, 08.11.2016</b>		
09:30 – 11:00	Prof. K V Srivastava, IIT Kanpur	Compact Multi-band Metamaterial Antenna Systems
<b>11:00-11:30</b>		<b>TEA BREAK</b>
11:30 - 13:00	Demonstration by Keysight Team (Mr. Pradeep Singh)	Design of RF Circuits Using ADS Tools
<b>13:00 – 14:00</b>		<b>LUNCH BREAK</b>
14:00 – 17:00		<b>Kanpur City/Industrial Tour</b>
<b>DAY – 5, Wednesday, 09.11.2016</b>		
09:30 – 11:00	Prof. Ananjan Basu, IIT Delhi	Microwave Measurement Techniques
<b>11:0-11:30</b>		<b>TEA BREAK</b>
11:30 – 12:15	Mr. Abhishek Jha, IIT Kanpur	Electromagnetic Simulation of RF Sensors
12:15 – 13:00	Ms. Greeshmaja Govind, IIT Kanpur	Numerical Simulation Tools for RF and Microwave Imaging
<b>13:00 – 14:00</b>		<b>LUNCH BREAK</b>
<b>14:00 – 15:00</b>		<b>VALEDICTORY FUNCTION</b>
15:00 – 17:00		<b>DISCUSSIONS / PERSONAL LAB VISITS</b>