

**\*Tentative Program Schedule of Workshop**  
**“Electromagnetic Interference and Compatibility (EMI/EMC) Techniques”**

Organized by

**Department of Electrical Engineering, IIT Kanpur (17.12.2020 – 19.12.2020)**

**Online Platform: Webinar**

<b>Time</b>	<b>Name of Instructor</b>	<b>Topic</b>
<b>DAY – 1, Thursday, 17.12.2020</b>		
09:00 – 10:30	Prof. M J Akhtar, IIT Kanpur	Introduction to EMI/EMC Techniques
10:30 – 11:45	Prof. K V Srivastava, IIT Kanpur	Basics of Antenna, Spectrum Analyzer, and Peak/Quasi-Peak Detector
11:45 – 13:15	Prof. A R Harish, IIT Kanpur	RF Antennas for Radiated Emission Measurement
13:15 – 14:15	<b>LUNCH BREAK</b>	
14:15 – 17:00	<b>Mr Rakesh Roshan: DEMONSTRATION of RF, Microwave &amp; Antenna Labs</b>	
<b>DAY – 2, Friday, 18.12.2020</b>		
09:00 – 10:30	Prof. Kamal K Kar, IIT Kanpur	Carbon Nanostructured Composites and Ferrites for EMI Shielding
10:30 – 11:45	Prof. M J Akhtar, IIT Kanpur	Conducted Emission, LISN Network and Filter Topology
11:45 – 13:15	Prof. N Gupta, IIT Kanpur	Electrostatic Discharge (ESD) and Grounding
13:15 – 14:15	<b>LUNCH BREAK</b>	
14:15 – 17:00	Demonstration by Rhode & Schwarz	Measurement of Conducted and Radiated Emissions

**DAY – 3, Saturday, 19.12.2020**

09:00 – 10:30	Prof. M J Akhtar, IIT Kanpur	EMI/EMC Standards for Military, Commercial and Biomedical Applications for various Geographical Regions
10:30 – 11:45	Prof. A R Harish, IIT Kanpur	EM Susceptibility of Products including Measurement and Design Strategy
11:45 - 13:15	M/s DASSAULT SYSTEMS, INDIA – CST	EMC/EMI Simulation Overview Using CST Studio suite
13:15 – 14:15	<b>LUNCH BREAK</b>	
14:15 – 15:45	Prof. M J Akhtar, IIT Kanpur	FSS based Hybrid Structures for EMI Shielding with Non-Ideal Behavior of Electronic Components and Signal Integrity for EMI/EMC
15:45 – 17:00	<b>Hands on Training on EMC/EMI Simulation Using CST Studio suite</b> (DASSAULT SYSTEMES, INDIA)	