

Program Schedule of Workshop

“Electromagnetic Interference and Compatibility (EMI/EMC): Theory, Techniques and Applications”

Organized by

EMI/EMC & Electrical Safety Test Facility, Department of Electrical Engineering, IIT Kanpur (12.10.2023 – 14.10.2023)

Venue: PBCEC-VH, IIT Kanpur

Time (IST)	Name of Instructor	Topic
DAY – 1, Thursday, 12.10.2023		
09:30 – 10:00	REGISTRATION	
10:00 – 10:30	Inaugural Remarks	
10:30-11:00	Photo Session & HIGH TEA	
11:00 – 12:15	Prof. M J Akhtar, IIT Kanpur	Introduction to EMI/EMC Techniques
12:15 – 13:15	Prof. A R Harish, IIT Kanpur	RF Antennas for Radiated Emission Measurement
13:15 – 14:30	LUNCH BREAK	
14:30 – 16:00	EMI/EMC and Electrical Safety Test Facility, IIT Kanpur (Seema, Rakesh, Romana) (Coordination: Mr. Rakesh Roshan, IIT Kanpur)	Live Demonstration – Part I (DJ Building, IIT Kanpur)
16:00 -16:15	TEA BREAK	
16:15 – 17:45	EMI/EMC and Electrical Safety Test Facility, IIT Kanpur	Live Demonstration – Part II (DJ Building, IIT Kanpur)

DAY – 2, Friday, 13.10.2023		
09:15 – 10:30	Prof. M J Akhtar, IIT Kanpur	Conducted Emission, LISN Network and Filter Topology
10:30-11:00	TEA BREAK	
11:00 – 12:00	Dr. Seema Awasthi, IIT Kanpur	EMC Standards for Medical Applications
12:00 – 13:00	Prof. A R Harish, IIT Kanpur	Spectrum Analyzer for EMI/EMC Measurements
13:00 – 14:30	LUNCH BREAK	
14:30 – 16:00	ANSYS	EMC Simulation Overview Using ANSYS – Part I (Coordination: Mr. Rakesh Roshan, IIT Kanpur)
16:00 – 16:15	TEA BREAK	
16:15 – 17:45	ANSYS	EMI/EMC Simulation Overview Using ANSYS – Part II
19:30 – 22:00	WORKSHOP DINNER (Ashiyana)	
DAY – 3, Saturday, 14.10.2023		
09:15 – 10:30	Prof. Abdul Wase, Wright State University Boonshoft School of Medicine	Cardiac Implantable Electronic Devices (Pacemakers and Defibrillators) and EMI-challenges in the era of Electric and Autonomous vehicles
10:30 – 11:30	Prof. M J Akhtar, IIT Kanpur	Nonideal Behavior of Circuit Components for EMC Applications
11:30-11:45	TEA BREAK	
11:45 – 13:00	Prof. M J Akhtar, IIT Kanpur	FSS and Nanocomposites based Hybrid Structures for EMI Shielding
13:00 – 14:30	LUNCH BREAK	
14:30 – 15:30	Rakesh Roshan, IIT Kanpur	Testing and Installation of EMC Semi-Anechoic Chamber
15:30 – 16:30	Closing Remarks and Certificate Distribution	
16:30 – 17:00	High Tea	