

Program Schedule of Workshop
“ELECTROMAGNETIC INTERFERENCE AND COMPATIBILITY (EMI/EMC) TECHNIQUES
FOR INDUSTRIAL AND MEDICAL APPLICATIONS”

Organized by

EMI/EMC & Electrical Safety Test Facility & Department of Electrical Engineering, IIT Kanpur (21.07.2022 – 23.07.2022)

Venue: ONLINE & L-13

Time (IST)	Name of Instructor	Topic
DAY – 1, Thursday, 21.07.2022		
09:00 – 09:30	REGISTRATION	
09:30 – 10:00	Inaugural Remarks	
10:00-10:30	Photo Session & HIGH TEA	
10:30 – 11:45	Prof. M J Akhtar, IIT Kanpur	Introduction to EMI/EMC Techniques
11:45 – 13:00	Prof. A R Harish, IIT Kanpur	RF Antennas for Radiated Emission Measurement
13:00 – 15:00	LUNCH BREAK	
15:00 – 16:15	Prof. M J Akhtar, IIT Kanpur	Conducted Emission, LISN Network and Filter Topology
16:15 -16:30	TEA BREAK	
16:30 – 18:00	Prof. M J Akhtar, IIT Kanpur	FSS and Nanocomposites based Hybrid Structures for EMI Shielding
21:00 – 22:00	Garth D’Abreu, ETS-Lindgren Cedar Park, Texas, USA	Chambers for EMC Testing
DAY – 2, Friday, 22.07.2022		
09:30 – 10:45	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

10:45-11:00	TEA BREAK	
11:00 – 13:30	M/s DASSAULT SYSTEMS, INDIA – CST	EMI/EMC Simulation Overview Using CST Studio suite (Coordination: Mr. Rakesh Roshan, IIT Kanpur)
13:30 – 15:00	LUNCH BREAK	
15:00 – 16:15	Prof. A R Harish, IIT Kanpur	Spectrum Analyzer for EMI/EMC Measurements
16:15 -16:30	TEA BREAK	
16:30 – 18:00	Prof. Omar Ramahi Electrical and Computer Engineering Department, University of Waterloo, Canada	What Causes Radiation?
DAY – 3, Saturday, 23.07.2022		
09:30 – 10:30	Mr. Sangam Baligar Tesla, Fremont, California, United States	EMI/EMC Applications and how to design for EMC
10:30 – 11:15	Prof. N Gupta, IIT Kanpur	Electrostatic Discharge (ESD) and Grounding
11:15-11:30	TEA BREAK	
11:30 - 13:00	Mr. Sathyendra MG, Consultant, Qmart-Global	EMI/EMC Standards for Medical Devices
13:00 – 15:00	LUNCH BREAK	
15:00 – 18:00	LAB DEMONSTRATIONS (Seema, Rakesh, Vikesh, Romana – IIT Kanpur) (Coordination: Dr. Seema Awasthi, IIT Kanpur)	