

REGISTRATION FORM

Workshop on Electromagnetic Interference and Compatibility (EMI/EMC) Techniques (Dates: To be announced)

Name:.....

Title/Position:.....

Organization:.....

Sex (Male/Female):.....

Email:.....

Phone(s):.....

Areas of interest:.....

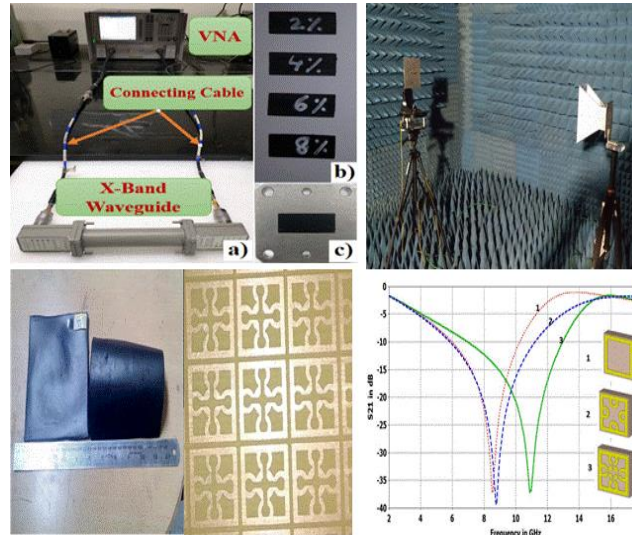
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Details of enclosed online payment receipt:

No..... Dated:.....

Amount (Rs.):..... Bank:.....

Date:..... Participant's Signature



Contact Details

Course Coordinator:

Prof. M. Jaleel Akhtar

Course Web Site:

https://www.iitk.ac.in/mimt_lab/EMIworkshop/index.html

Other Resources:

Microwave Imaging and Material Testing (MIMT)
Laboratory, IIT Kanpur

http://www.iitk.ac.in/mimt_lab/

Contact Address:

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**A Self Finance / BIRAC
Sponsored Workshop**

on

Electromagnetic Interference and Compatibility (EMI/EMC) Techniques

Dates: To be announced

Mode:

Webinar, IIT Kanpur

Organized by:

Prof. M. J. Akhtar

Department of Electrical Engineering
Indian Institute of Technology Kanpur



Workshop Objective

One of the major challenges for RF Engineers in today's world is to minimize the electromagnetic interference (EMI) within circuits and systems due to increasing usage of high speed and high frequency devices. The electromagnetic compatibility (EMC) is mainly a technique to deal with such types of situations, where the main emphasis is to propose an optimum design in order to minimize the electromagnetic coupling and interference. The main objective of this workshop is to provide an insight into various techniques and procedures required for the design of electronic systems, which are in compliance with the EMC guidelines. The course would provide a brief outline of EMC guidelines prevalent in various geographical regions and imposed by a number of agencies including the Bureau of Indian Standards (BIS). The concept of effective shielding using modern procedures involving the use of FSS (frequency selective surfaces) structures and light weight nanocomposites would be explained. The participants would be provided the interaction of state-of-the-art modeling and simulation software currently being used for EMI/EMC applications. Finally, it would be tried to provide a glimpse of schematic of actual experimental setups used for EMI/EMC applications.

Intended Participants (Who will be benefited)

The workshop is especially designed for people from academia, R&D institutes and industry working in the field of RF, microwaves and high frequency digital electronics which requires design of EMI/EMC compatible circuits and systems. It is also informative to various other

industries where EMI/EMC testing and EMC compliance of instruments is considered as one of the prime requirements. The workshop is equally suited for professionals and graduate students desirous of working in the challenging EMI/EMC field.

Faculty members from the streams of Electronics & Communication Engineering, and Electrical Engineering can encourage UG/PG students for joining the workshop to gain an insight towards challenging practical aspects of electromagnetic exposure/interference and associated techniques to minimize it.

Workshop Content

Introduction to the electromagnetic interference (EMI) and the electromagnetic compatibility (EMC) techniques, basic aspects of the EMC design, standards for EMI/EMC in various geographical regions, brief introduction of various test parameters such as radiated and conducted emissions, susceptibility, electrostatic discharge etc., modeling of non-ideal behavior of various electronic circuits and components from EMI/EMC point of view, conducted emissions, the line impedance stabilization network (LISN), radiated emissions, antennas and testing procedures relevant for EMC applications, basic concept of effective shielding, usage of frequency selective surface (FSS) and advanced composites based shielding for modern RF applications and electronic instruments.

All the participants of the workshop would be provided an e-certificate of participation.

Registration Procedure

All the participants are requested to pay the registration fees through SBI Collect. The details of online payment are given at:

https://www.iitk.ac.in/mimt_lab/EMIworkshop/registration.html

The filled application in the attached form along with the online payment detail should be sent by email to rfmicrowaveiitk@gmail.com. The participants would receive the confirmation email by the course coordinator. The link of webinar to join the workshop would be sent to all registered participants.

PARTICIPANTS' REGISTRATION

From	Fees
Industry	₹ 10000+18% GST (₹ 11800)
R&D Organizations	₹ 6000+18% GST (₹. 7080)
Academic Institutions	₹ 4000+18% GST (₹ 4720)
Students	₹ 1000+ 18% GST (₹.1180)
IITK Students	₹ 500+ 18% GST (₹ 590)