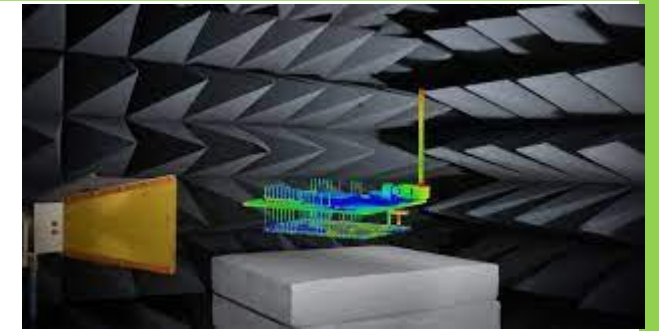




School of Electronics Engineering

Department of Communication Engineering

Value Added Course



Electromagnetic Interference and Compatibility (EMI/EMC) – Basics and Standards (VAC2338)

(9:30 AM - 5:30 PM)

Week 1 (02/03/2025): 7 Hours

- ♦ Fundamentals of Electromagnetic interference
- ♦ Overview of Electromagnetic Compatibility
- ♦ Importance of Addressing EMC Issues Early
- ♦ Examples of EMC Disasters

Week 2 (09/03/2025): 7 Hours

- ♦ Introduction to EMC / EMI
- ♦ Essential elements of an EMC problem
- ♦ Electromagnetic Coupling
- ♦ EMI Mitigation Techniques
- ♦ Grounding, Filtering, Shielding

Week 3 (23/03/2025): 7 Hours

- ♦ Overview of Industrial importance of EMC/EMI
- ♦ Introduction to EMI/EMC 3D PCB Simulations
- ♦ 3D Simulation of PCB Antenna

Week 4 (06/04/2025): 7 Hours

- ♦ 3D Simulation of Electromagnetic exposure to human body (SAR)
- ♦ Step/ Theory to be followed in Measurement of EMC / EMI

Project Phase : 09/03/2025 - 15/04/2025

((9:00 AM - 1:00 PM))

Week 5 (13/04/2025): 4 Hours

- ♦ Discussion on Fabrications of the prototype
- ♦ EMC/EMI measurement Hands-on Session using the Anechoic Chamber
- ♦ Prototype Development

Eligibility: UG/ PG Students

Mandatory for Certificate:

- ♦ Minimum 50% Marks in Final Assessment Test
- ♦ Completion of Project

Starting from
02nd March, 2025 (Sunday)

Interaction ON-LINE

Registration fee: **Rs. 500/-** + GST

Registration Link:

Co-ordinators: Dr. Rajkishor Kumar, Dr. Avinash Chandra



8271976691
9572373184



rajkishor.kumar@vit.ac.in
avinash.chandra@vit.ac.in