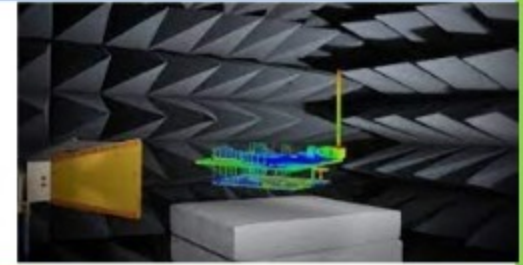




School of Electronics Engineering

Department of Communication Engineering

Value Added Course



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

(9:00 AM - 5:00 PM)

Week 1 (14/12/24): 7 Hours

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

Week 2 (04/01/25): 7 Hours

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

Week 3 (11/01/25): 7 Hours

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

(9:00 AM - 5:00 PM)

Week 4 (18/01/25): 7 Hours

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

Week 5 (01/02/25): 7 Hours

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

Mandatory for Certificate:

- Minimum 50% Marks in Final Assessment Test
- Minimum 75% attendance

Eligibility: UG/ PG Students

Starting from
14 December, 2024 (Saturday)-

Interaction- OFFLINE

Registration fee: Rs. 500/- + GST

Registration Link: <https://events.vit.ac.in/>

Co-ordinators: Dr. M Karthikeyan, Dr. Naveen Mishra

Project Phase : 14/12/2024 - 01/02/2025



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