School of Electronics Engineering

Department of Communication Engineering

Value Added Course

Electromagnetic Interference and compatibility (EMI/EMC) – Basics and standards – (VAC2338)

Online- 5th March to 27th March (6:30 PM - 8:30 PM) , Offline – 28th March,2026.

Week 1 (05/03/2026 to 08/03/2026): 8 Hours

- Introduction to EMI & EMC, Electromagnetic Fundamentals
- Noise Sources in Electronic Systems, Coupling Mechanisms
- Signal Behavior on PCB Traces, Grounding Concepts, EMC Standards & Regulatory Framework

Week 2 (09/03/2026 to 13/03/2026): 10 Hours

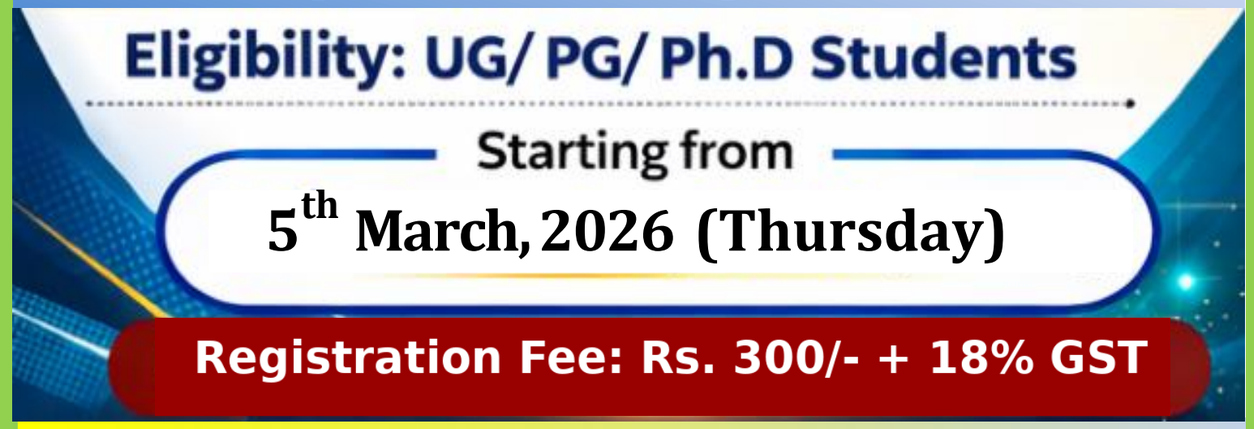
- Conducted Emission Standards, Radiated Emission Standards, Immunity Standards, Decoupling & Supply Stabilization,
- Power Distribution Behavior in PCBs, PCB Layout for EMI Control, Crosstalk & Signal Integrity Effects, Shielding
- Techniques, Filtering Techniques, Cable & Connector Practice

Week 3 (24/03/2026 to 28/03/2026): 12 Hours

- EMI in Consumer Electronics, Automotive & Industrial EMC
- Medical & Aerospace EMC, Measurement Fundamentals
- Conducted Emission Measurement Setup, Radiated Emission Measurement Setup
- Immunity Testing Setup, Lab Familiarization, Conducted Emission Testing
- Radiated Emission Testing, EMI Reduction Experiment, Integrated Case Study & Viva

Resource Person:
Dr. K. G. Sujanth Narayan Ph.D
Assistant Professor III,
SASTRA University,Thanjavur.

SDG 3: Good Health and Well-being
SDG 8: Decent Work and Economic Growth
SDG 9: Industry, Innovation, and Infrastructure
SDG 12: Responsible Consumption and Production



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

Co-ordinators: Dr. Jasmine, Dr. A. Christina Josephine Malathi, Dr. S. Revathi

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