



Summer Internship Program on “EMC & EMI”

organized by

**EMC / Wireless Test Chamber, School of Electronics Engineering,
Vellore Institute of Technology, Vellore**

in association with

iAMPS & Hz Technology Solutions Pvt. Ltd., Bengaluru

About the Program:

This summer internship will provide an overview of EMI/EMC through blended learning programme as well as hands-on training and case studies at iAMPS&Hz, Bengaluru.

Objectives:

To keep budding engineers industry ready to address the EMC/EMI problems towards product development. This summer internship will offer theory, lab sessions and industrial project.

Program Benefits:

Helps the participants to upskill the technical knowledge in EMC/EMI design & measurement. Successful participants will get internship certificate from VIT, Vellore and iAMPS&Hz, Bengaluru.

Course Fee: Rs.4,000 + (GST as applicable)

Duration: June 13 to July 08, 2022

Eligibility: The course can be taken up by B.Tech / M.Tech / PhD students, engineers working in the electronics industry. Professionals looking to switch and or skill up to a more lucrative EMC area.

Program Content:

A. THEORY SESSIONS	
<ul style="list-style-type: none"> • Introduction to EMI/EMC • Units used in EMI/EMC • Basic Design solutions for EMI/EMC • Sub-system Level EMI/EMC Specifications • Signal Integrity (SI) & Power Integrity (PI) • EM Shielding Design • Grounding & Bonding • Cable & Harness Design 	<ul style="list-style-type: none"> • EMI/EMC Case History of Radar System • CM Techniques • Electromagnetic Environmental Effects (E3) requirements (MIL STD 464 C) • EMI/EMC Simulation & Modeling of a Typical Ship • Transient Protection (Filters) • High Power EM & Intentional EMI (HPEM & IEMI) • Test and Validation
B. LAB SESSIONS	C. INDUSTRIAL PROJECT
EMC / EMI measurements – Radiated Emission, E&H field measurements <ul style="list-style-type: none"> • Hands-on training on to use spectrum analyzer, network analyzer at EMC/Wireless Test Chamber, VIT, Vellore. 	Two weeks project guided by experts from iAMPS&Hz.

COORDINATORS:

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