

# KUMARAGURU

Institutions

## KUMARAGURU COLLEGE OF TECHNOLOGY

KUMARAGURU CENTRE FOR INDUSTRIAL RESEARCH & INNOVATION - KCIRI

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

DEPARTMENT OF MECHATRONICS ENGINEERING

In association with



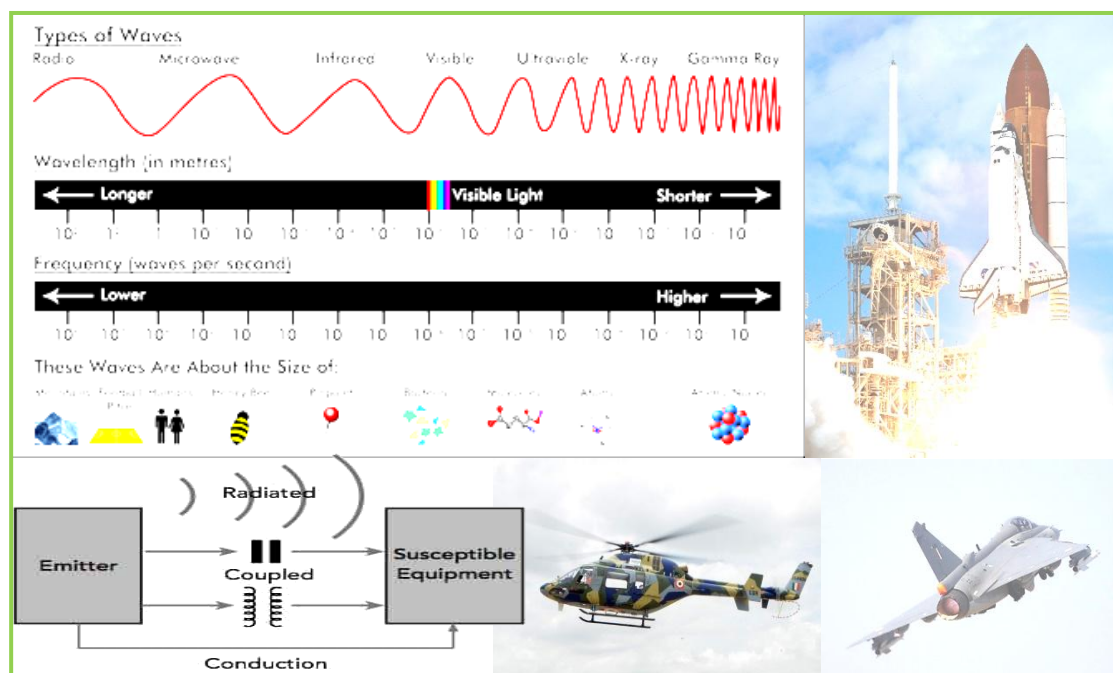
**MADRAS INSTITUTE OF TECHNOLOGY ALUMNI ASSOCIATION**

**National Seminar  
on**

# EMI / EMC Aspects of Electrical & Electronic Systems for Aerospace, Automotive & Defence

**Date:** 26 September 2025 **Time:** 9.00 AM – 2.00 PM

**Venue:** Kumaraguru Institutions, Coimbatore



## Seminar Overview

The Aerospace, Automotive, and Defence industries are becoming increasingly dependent on sophisticated electronic and electrical systems. This reliance makes Electromagnetic Interference (EMI) and Electromagnetic Compatibility (EMC) vital design considerations to ensure safety, reliability, and compliance. While EMI can disrupt performance and lead to failures, EMC ensures that multiple subsystems operate together seamlessly without affecting each other. Addressing these challenges at the design stage reduces costly redesigns, accelerates certification, and enhances system robustness.

In Aerospace, EMI/EMC measures are essential to safeguard avionics, navigation, and communication systems, directly influencing flight safety and mission reliability. In the Automotive sector, the growth of electric and autonomous vehicles demands stringent EMC compliance for functional safety, passenger security, and performance optimization. For Defence applications, where radars, communication, and weapon systems function in proximity under extreme conditions, EMC validation guarantees survivability, interoperability, and operational superiority.

This seminar brings together leading experts from **BEL, ADA, CABS, CEMILAC, and industry practitioners** to share insights into standards, certification pathways, design strategies, and case studies. Participants including engineers, scientists, academicians, and entrepreneurs will benefit from practical knowledge, early-stage design guidance, and valuable networking opportunities. The seminar highlights how EMC compliance can be transformed from a regulatory requirement into a strategic advantage for innovation, safety, and global competitiveness.

Keynote Address - Defence	<b>Smt J Anbuselvi</b> Former Senior Deputy General Manager, BEL
Keynote Address - Aerospace	<b>Dr K V Paramesh</b> Deputy Project Director, ADA
Keynote Address - Testing	<b>Dr S K Venkatesh</b> Former Scientist 'G', CABS
Keynote Address – Certification	<b>Shri J Krishna Kumar</b> Regional Director, CEMILAC, DRDO
Keynote Address – Testing Facilities	<b>Shri B N Prakash</b> Former Lead & Technical Assessor, QCI, NABL & Consultant – EMC

### Who Can Register:

- Engineers of Industry R&D Centres, MSME, Start-ups, Entrepreneurs.
- Scientists from DRDO, CSIR, National and Regional R&D Lab.
- Academicians and Students from technical institutions.

### Registration Fees:

- |                       |                    |
|-----------------------|--------------------|
| 1. Industry Delegates | : <b>Rs 1000/-</b> |
| 2. Academic Delegates | : <b>Rs 500/-</b>  |
| 3. Student Delegates  | : <b>Rs 200/-</b>  |

The fees can be paid by RTGS /NEFT /UPI through Registration link.

**Registration Link:** <https://shorturl.at/BgeH5>



### Contact:

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## **Kumaraguru College of Technology (KCT)**

Kumaraguru College of Technology (KCT), Coimbatore, with over four decades of academic excellence in engineering and technology education, is an integral part of Kumaraguru Institutions. Founded by Padma Bhushan Arutchelvar Dr. N. Mahalingam, Kumaraguru College of Technology (KCT) was established in 1984, followed by KCT Business School in 2005, Kumaraguru Institute of Agriculture (KIA) in 2014, Kumaraguru College of Liberal Arts and Science (KCLAS) in 2018, and Kumaraguru School of Business (KSB) in 2022. Together, these institutions promote a cross-dimensional education model that broadens intellectual horizons and nurtures empowered, socially conscientious students.

**Kumaraguru Centre for Industrial Research and Innovation (KC.IRI)** is a focused Research & Innovation Eco System as part of KI, in collaboration with Industries for promotion of Industry-specific Research & Innovative Product Development established in 2017 with focus on following Sectors & Domains:

### **Aerospace Research**

- Computational Fluid Dynamics
- Structural Analysis and Simulation

### **Defence Products**

- Avionics Systems - Indigenisation
- Development, Testing & Certification

### **Automotive Systems**

- Autonomous Vehicles, AGVs, AMRs
- Hydraulics & Suspension Systems

**Department of Electronics & Communication Engineering** was started in the year 1987 with the idea of equipping young people with the necessary technical knowledge and professional skills needed to address the challenges in the rapidly growing field of Electronics and Communication Engineering and promoting research in this area. In the world of Smartphones, this department has a very significant role to play. Instigate an eye for detail inside the minds of youngsters and there is they come up with a lot of innovation in electronics. For this mission, the Department is fully equipped with state-of-the-art laboratories such as DSP, VLSI, Optical & Microwave, and RF/Communication.

**Department of Mechatronics Engineering** was established in the year 1999, offering B.E. in Mechatronics Engineering. The department has well developed laboratory infrastructure which bridges the gap between industry and academia. It also provides consultancy services to the industries. The department regularly invites people from the industry to interact with the faculty and students to update them with the current know how's and also to make them understand the needs of various Industries.

## **MIT Alumni Association**

The Madras Institute of Technology (MIT) is a pioneer Institution of the country that celebrated its golden jubilee. It offers advanced professional courses in Aeronautics, Electronics, Automobile, Instrumentation technology, Production and Rubber technology and Master's programme in Avionics and Mechatronics. Many of its past students are today holding key positions in various Government Research Establishments, public sector, private sector and multinational companies both within the country and abroad.

Madras Institute of Technology Alumni Association (MITAA) is more than three decades old and is engaged in promoting exchange of technical information among Engineering fraternity across India by organizing technical seminars, lectures regularly. The Coimbatore and Bangalore chapters of the MIT Alumni Association are jointly organizing this seminar.

## Advisory Committee

- **Dr K Tamilmani**, Former Director General (Aero), DRDO
- **Shri S V Raman**, Former PM, Hindustan Unilever & President MITAA-CC
- **Shri P Jayapal**, Former CE, CEMILAC, DRDO & President MITAA-BC
- **Shri A Senthilnathan**, President, MITAA-PC, Chennai
- **Shri R Arunachalam**, Secretary MITAA-BC, Bangalore
- **Shri C Vasantharaj**, Director - KCIRI, KCT
- **Dr S Raghupathy**, Director-Strategic Planning, KCT
- **Rear Admiral V Mohan Doss**, Director (DP) - KCIRI, KCT
- **Dr M Ezhilarasi**, Principal – KCT
- **Dr K Ravichandran**, Emeritus Professor & Former Dean – MIT, Chennai
- **Dr D Saji**, Professor of Practice, IIT Madras, Chennai
- **Dr D Swamy**, Ex Director- Jansons School of Business, Coimbatore
- **Shri T K Sundaramurthy**, Scientist (Retd), ISRO, Bangalore
- **Shri C U Hari**, Former Director (A & C), ADA, Bangalore
- **Smt S Suguna**, Scientist, ADA, Bangalore
- **Dr D C Pande**, DRDO Distinguished Fellow, LRDE, DRDO, Bangalore
- **Dr A Vengadarajan**, Former Director, SQR, DG-ECS Office, DRDO, Bangalore
- **Dr C Thangavelu**, Scientist (Retd), GTRE, DRDO, Bangalore
- **Shri P Swaminathan**, AGM, BAEHAL Software Ltd., Bangalore
- **Shri N Ramachandran**, Managing Director – MELSS & former President ELCINA, President AIDAT
- **Shri S Jayaprakash**, Chief Executive, Vetri Engineers, Coimbatore
- **Shri V Narayanaswamy**, Director, Accord Systems, Bangalore
- **Dr S Manicka Vasagam**, Director, Shriram Inst for Industrial Research, Ex. GM HAL, Bangalore
- **Shri S Narayanan**, Director- Bimetal Bearings, Coimbatore
- **Shri Ravi Ramarao**, Ex GM - Bosch, Bangalore

## Organizing Committee

- **Shri N Sundararajan**, Secretary MITAA-CC – *Chairman*
- **Dr N Ramesh Babu**, Director – School of Electrical Sciences, KCT – *Co-Chairman*
- **Dr P S Premkumar**, Head-IRI, KCIRI, KCT – *Co-Chairman*
- **Dr M Bharathi**, HoD-ECE, KCT
- **Dr M Saravana Mohan**, HoD-MCE, KCT
- **Dr A Amsaveni**, Professor-ECE, KCT – *Convener*
- **Shri U K Praveen**, Project Lead, KCIRI, KCT- *Co-convener*
- **Dr B Sabitha**, Assistant Professor- MCE, KCT- *Co-convener*