



ERODE SENGUNTHAR ENGINEERING COLLEGE

(An Autonomous Institution)

Approved by AICTE, New Delhi, Permanently Affiliated to Anna University- Chennai,
Accredited by National Board of Accreditation (NBA), New Delhi &
National Assessment and Accreditation Council (NAAC), Bangalore with 'A' Grade
PERUNDURAI -638 057, TAMILNADU, INDIA.



DEPARTMENT OF MECHANICAL ENGINEERING ALUMNI INTERACTION REPORT

**ERODE SENGUNTHAR
ENGINEERING COLLEGE**
(AUTONOMOUS) Perundurai, Erode - 638 057, Tamilnadu

**DEPARTMENT OF
MECHANICAL ENGINEERING**

**Alumni Interaction and
Guest Lecture on**

**“DFMEA AND
INTRODUCTION TO IOT”**

25.07.2026 | 09:45 am | Smart Class Room

Resource Person :
G.Udhayashankar
Senior Designer,
HCL Tech,
Rathinam Campus, Echanari

Co-ordinators
Mr. Parthiban J, AP / Dept. of Mech.
Mr. Hariharan M, AP / Dept. of Mech.

Thiru. G. Kamalamurugan,
Correspondent, ESEC

Dr. V. Venkatachalam
Principal, ESEC

Dr.N.Saravanan
HoD. / Dept. of Mech.

Empowering Future Engineers through Alumni Interaction on “DFMEA and Introduction to IoT”

The Department of Mechanical Engineering, Erode Sengunthar Engineering College (Autonomous), Perundurai, successfully organized an Alumni Interaction and Guest Lecture on 25 July 2026 at 09:45 AM in the Smart Class Room.

The session was delivered by our proud alumnus **Mr. G. Udhayashankar** (Batch 2014–2018), Senior Designer, HCL Technologies, Rathinam Campus, Eachanari.



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Returning to his alma mater, Mr. Udhayashankar shared his professional journey from being a Mechanical Engineering student at Erode Sengunthar Engineering College to building a successful career in the engineering design and technology sector.

The guest lecture, titled “**DFMEA and Introduction to IoT,**” provided students with an excellent blend of industrial quality engineering concepts and emerging digital technologies. The session began with an in-depth introduction to **Design Failure Mode and Effects Analysis (DFMEA)**, where the speaker explained the importance of identifying potential design failures at the early stages of product development. He highlighted how DFMEA is widely adopted in automotive, manufacturing, aerospace, and product development industries to improve product reliability, reduce development costs, and enhance customer satisfaction.

Mr. Udhayashankar further demonstrated the systematic DFMEA methodology, covering failure modes, causes, effects, risk assessment, Risk Priority Number (RPN), and preventive actions through practical industrial examples. His real-world experience enabled students to understand how quality engineering tools contribute to designing robust and reliable products.

The second part of the session introduced students to the rapidly evolving field of the **Internet of Things (IoT)**. He explained how IoT integrates sensors, embedded systems, cloud computing, and wireless communication to create intelligent and connected products. Students were introduced to various industrial IoT applications, including smart manufacturing, predictive maintenance, industrial automation, smart factories, healthcare systems, and smart cities.

A major highlight of the interaction was the emphasis on **Industry 4.0**, digital transformation, and the growing demand for multidisciplinary engineers possessing skills in mechanical engineering, electronics, programming, data analytics, and automation. The speaker encouraged students to continuously upgrade their technical competencies through certifications, internships, industrial projects, and self-learning to remain competitive in today's technology-driven industries.

The session was highly interactive, with students actively participating in discussions and raising questions regarding DFMEA implementation, IoT technologies, embedded systems, career opportunities in product design, software tools used in industries, and the skill sets expected by multinational companies. Mr. Udhayashankar patiently addressed every query and motivated students to develop strong problem-solving abilities, analytical thinking, and an innovative mindset.



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The Department sincerely appreciates **Mr. G. Udhayashankar** for taking time to reconnect with his alma mater and for sharing his valuable industrial expertise with the budding mechanical engineers. His inspiring interaction encouraged students to explore interdisciplinary career opportunities and prepared them to meet the challenges of modern engineering industries.

The programme was conducted under the guidance of **Dr. N. Saravanan, Head of the Department of Mechanical Engineering**, with the support of **Dr. V. Venkatachalam, Principal**, and **Thiru. G. Kamalamurugan, Correspondent**.

The event was coordinated by:

- **Mr. Parthiban J., Assistant Professor, Department of Mechanical Engineering**
- **Mr. Hariharan M., Assistant Professor, Department of Mechanical Engineering**

The Department of Mechanical Engineering extends its heartfelt gratitude to **Mr. G. Udhayashankar** for his inspiring contribution and looks forward to many more meaningful interactions with its distinguished alumni, strengthening the bond between the institution and its graduates while enriching the learning experience of future engineers.

**#ESECAumni #MechanicalEngineering #DFMEA #IoT #Industry40
#QualityEngineering #SmartManufacturing #GuestLecture #AlumniConnect
#CareerGuidance #HCLTech #ErodeSenguntharEngineeringCollege**

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