



A Report on Guest Lecture on “Innovative Electronics Manufacturing”
Organized by Department of Electrical & Electronics Engineering
in association with the Startup Cell
on 17.10.2025



Report Submitted by: Dr. K. Arul Kumar, Associate Professor, Department of Electrical & Electronics Engineering.

Resource Person Details: Mr. Sathyanarayanan Chandran, Technology Manager, Kearney.

Participants: B. Tech-III Yr & IV year, EEE & ECE Students

Total No of participants: 112

Mode of Conduct: Offline

Report Received on 27.10.2025.

Introduction:

The Department of Electrical and Electronics Engineering cordially organized a Guest Lecture on the topic “**Innovative Electronics Manufacturing**” delivered by Mr. Sathyanarayanan Chandran, Technology Manager, Kearney.

Resource Person Professional Summary:

Mr. Sathyanarayanan Chandran completed B.E. in Electrical & Electronics Engineering and M. Tech in Manufacturing Management. He is an accomplished Electronics Technology Manager with over 17 years of experience in electronics manufacturing, design, and costing. His professional career spans leading global organizations such as Honeywell, Cookson Electronics, Nokia Siemens Networks, and V-Net Technology Pvt. Ltd. He possesses extensive expertise in semiconductor packaging, component engineering, DfX analysis, and process automation.

Throughout his career, Sathya has successfully led should-cost teams managing more than \$1 billion in EMS and electronics spending. He has developed advanced statistical cost models, supported OEM negotiations across semiconductors, connectors, and display components, and conducted competitive benchmarking for over 500 products in telecom, medical, and automotive sectors. He has also managed NPI and production ramp-up for more than 100 electronic products, ensuring seamless transitions from design to manufacturing.

He has designed and deployed automation systems to standardize semiconductor packaging analysis, improving productivity and scalability. His strong analytical and technical acumen enables him to transform complex engineering data into value-driven design and cost optimization solutions, contributing significantly to manufacturing excellence and business growth.

Key Points in Guest Lecture:

The session provided valuable insights into Printed Circuit Board (PCB) design, manufacturing processes, and the advancements in modern electronic production systems. Mr. Sathyanarayanan elaborated on the stages of PCB designing—from schematic creation and layout optimization to fabrication and testing—highlighting the importance of precision, sustainability, and innovation in electronics manufacturing.

Students gained a deeper understanding of how design thinking, process optimization, and emerging technologies such as AI, IoT, and automation are shaping the future of electronics manufacturing. The interactive session also emphasized the relevance of practical skills, industry standards, and collaborative learning in developing next-generation engineers.

Conclusion:

The Guest lecture was a significant milestone in the professional development opportunities for students and aligns with MITS's vision to integrate industry with academia for overall growth.

Acknowledgement:

I would Like to thank, Dr. P. Ramanathan, Principal of MITS Madanapalle. Dr. C. Kamal Basha, Vice Principal (Administration), Dr. Dipankar Roy, Dean, School of Engineering. Dr. A.V. Pavan Kumar, Head, Department of Electrical & Electronics Engineering and also transport in charge for arrangements.