



MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE
(UGC-AUTONOMOUS INSTITUTION)

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A Report on Online Guest Lecture titled
"PCB Altium Software" Organized by
Department of Electronics & Communication Engineering
in association with IEEE SB of MITS and MITS IIIC
on 04.08.2025



Report Submitted by: Mr. G. Charan Kumar, Assistant Professor, Department of Electronics & Communication Engineering.

Resource Person Details: Mr. Surendra, Design Engineer, Altium Software India Pvt. Ltd, Bangalore.

Mode of Conduct: Offline

Report Received on 11.08.2025.

Participants: 60 students from the III Year ECE Department.

Introduction:

The Department of Electronics and Communication Engineering, in collaboration with IEEE, organized a guest lecture on "PCB Altium Software" on August 04, 2025. The session, conducted in online mode, was aimed at providing students with a practical understanding of industry-standard PCB design software. The guest speaker was Mr. Surendra, a Design Engineer from Altium Software India Pvt Ltd, Bangalore, who shared his expertise and insights with the attendees.

Details of the Lecture:

Mr. Surendra's lecture provided an in-depth overview of the Altium software, a comprehensive tool for electronic design automation (EDA). The session covered various aspects of the software, including its features for schematic capture, PCB layout, and 3D visualization. He explained the importance of using professional-grade software for designing Printed Circuit Boards (PCBs) and demonstrated how Altium helps in creating complex and efficient circuit designs. The lecture was highly interactive, with the speaker engaging students through examples and practical demonstrations. He also highlighted the relevance of Altium Designer in the current electronics industry and the career opportunities available for students proficient in such tools.

Program Outcomes

- **Engineering Knowledge:** The session reinforced theoretical knowledge of electronic circuits and design principles by demonstrating their practical application in PCB development.
- **Modern Tool Usage:** Students were introduced to a professional, industry-standard Electronic Design Automation (EDA) software, Altium Designer, which is a critical tool for modern engineers. This exposure helps bridge the gap between academic theory and industry practice.
- **Design/Development of Solutions:** By showcasing the complete design process from schematic to a finished PCB, the lecture provided a clear understanding of how to use modern tools to design and develop practical electronic solutions.

Conclusion and Vote of Thanks

The guest lecture was a great success, offering valuable insights into the world of PCB design and the use of Altium software. The students gained a deeper understanding of a crucial industry tool, which will be highly beneficial for their academic projects and future careers.

Dr. Rajasekaran, Professor & Head of the Department of ECE, concluded the event by delivering the Vote of Thanks. He expressed gratitude to the management, the principal, and the Vice Principal Academics for their support in organizing the event. He also extended his sincere thanks to the guest speaker, Mr. Surendra, for his time and for delivering an excellent and informative lecture. The session concluded with a note of appreciation of all the faculty members and students for their enthusiastic participation.