IEEE Day - MATLAB for Project Applications

The Department of Electrical and Electronics Engineering, MVSREC, in association with the IEEE MVSR Student Branch and IEEE MVSR PES Student Chapter, conducted a seminar on *"MATLAB for Project Applications"* on 10th October 2025, organized as part of the celebrations of **IEEE Day** and **MATLAB Day**. The event aimed to enhance participants' understanding of MATLAB and Simulink through insightful discussions and interactive demonstrations highlighting their applications across various engineering fields.

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Session Details:
Date: 10th October, 2025   Timings: 10:00 AM – 1:00 PM
Speaker Details: Ms. Ponnaganti Chandana, Product Manager,
                             ARKANCE IN Private Ltd., Hyderabad.
Venue: M102, EEE Department, MVSREC Occasion: IEEE Day & MATLAB Day
Number of Attendees: 60   IEEE Attendees: 7   Non-IEEE Attendees: 53

Event Overview: The Department of Electrical and Electronics Engineering, MVSREC, in association with the IEEE MVSR Student Branch and IEEE MVSR PES Student Chapter, organized a seminar on *"MATLAB for Project Applications"* on 10th October 2025. The seminar was conducted to enhance participants' understanding of MATLAB and Simulink through insightful discussions, interactive demonstrations, and practical hands-on exercises. The event was part of the celebrations of **IEEE Day** and **MATLAB Day**, aiming to provide students with an enriching learning experience and practical exposure to widely used engineering software.

Flyer of the event

Inaugural Session: The seminar commenced with a welcome address by Prof. P. V. V. Rama Rao, Professor and Head, Department of EEE, MVSREC. He emphasized the importance of developing technical skills through hands-on learning and encouraged students to actively participate in the session. Following this, Dr. D. Hari Krishna, IEEE MVSR Student Branch Counsellor and Associate Head & Professor, Department of EEE, addressed the participants. He highlighted the significance of MATLAB in modern engineering applications and reiterated that the seminar was organized on the occasion of MATLAB Day and IEEE Day, motivating students to leverage such knowledge-enriching initiatives for their academic and research pursuits. Mr. M Akhil, IEEE Day Ambassador has also shared the importance of IEEE Day.

Prof. PVV Rama Rao, Head EEED addressing the participants

Introduction of Resource Person: Prof. P. V. V. Rama Rao introduced the resource person, Ms. Ponnaganti Chandana, Product Manager, ARKANCE IN Private Ltd., to the participants. Ms. Chandana delivered an engaging and comprehensive session covering both the fundamentals and advanced features of MATLAB and Simulink.

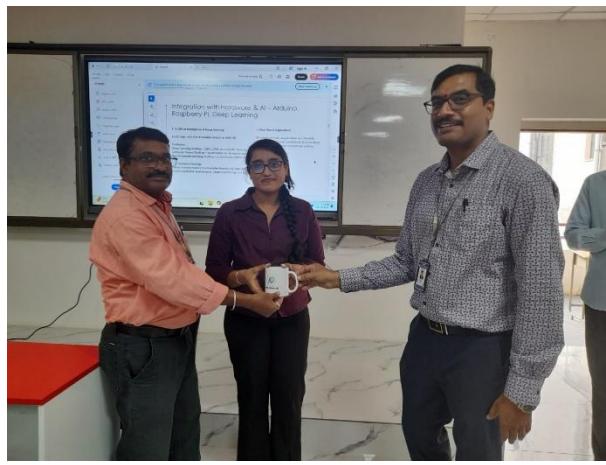Ms. P Chandana, resource person addressing the participants in the session

Session Highlights and Topics Covered: The session focused on practical applications of MATLAB and Simulink across various engineering domains. Key topics included:

- Overview of advanced MATLAB concepts
- Simulation and analysis using Simulink
- System-level analysis including current, voltage, and torque plots
- MATLAB applications in data analysis and research
- Guidance on research proposal writing and participation in RAMP Challenge
- Evolution of MATLAB from matrix operations to AI & Digital Twins
- Advanced MATLAB features such as live scripts and toolbox apps
- Real-time industrial applications with practical examples
- MATLAB workflow: design, simulate, test, and deploy
- Case studies including solar power generation and cruise control simulation
- Role of MATLAB in final-year projects and simulation-driven validation

Hands-on Demonstrations: Participants gained practical experience through live demonstrations and hands-on exercises. These sessions helped students understand how MATLAB simplifies complex engineering tasks and enhances problem-solving capabilities.

Interactive Session & Q&A: The seminar concluded with an interactive Q&A session, where students clarified their queries, discussed practical challenges, and shared their experiences using MATLAB in academic and project work.

Felicitation of the resource person

Vote of Thanks:
The speaker, Ms. Ponnaganti Chandana**,** was felicitated by Prof. P. V. V. Rama Rao**,** HoD, and Dr. D. Hari Krishna**,** IEEE MVSR Student Branch Counsellor. The vote of thanks was presented by Dr. Y. Laxmi Narasimha Rao**,** IEEE MVSR PES Faculty Advisor, which marked the successful conclusion of the seminar.

Outcome: The seminar provided an excellent platform for students to enhance their technical knowledge and practical skills in MATLAB and Simulink. It inspired participants to integrate MATLAB into their academic projects and research initiatives, thereby strengthening their capabilities in engineering analysis, modeling, and simulation-driven validation.

Event Coordinators:
- Dr. D. Hari Krishna, IEEE MVSR SB Counsellor
- Dr. Y. Laxmi Narasimha Rao, IEEE MVSR PES Faculty Advisor

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