



SOUTH EAST ASIAN EDUCATION TRUST (R)

SEA COLLEGE OF ENGINEERING AND TECHNOLOGY

(Approved by All India Council for Technical Education (AICTE), New Delhi)



ACCREDITED By NAAC: Grade: B++

Affiliated to Visvesvaraya Technological University (VTU), Belagavi, Recognised by
Government of Karnataka)

Department of Electronics and Communication Engineering

Report on the Seminar on MATLAB and its Applications

A Seminar on “MATLAB and its Applications” was organized by Department of Electronics and Communication Engineering, S.E.A College of Engineering and Technology, Bangalore on 24th November, 2023. The Seminar was conducted in ECE Seminar Hall, S.E.A College of Engineering and Technology from 10.30 am to 12.30 pm. The seminar was arranged for final year and pre final year students. Nearly 60 students participated in the seminar. The function was presided by Dr.Bhagavanth K Deshpande, Director, SEACET and Dr.B.Venkatanarayana, Principal, SEACET and introduction of resource person was given by Dr. Pradeep Kumar N.S., HOD, ECE, SEACET.

About Seminar:



S.E.A College of Engineering and Technology

Affiliated to VTU, Belagavi and Approved by AICTE, New Delhi and Accredited B++ by NAAC

Ekta Nagar, Near Ayyappa Nagar Circle, Devasandra Main Road, K.R.Puram ,Bangalore-49



Department of Electronics and Communication Engineering



Organizes

Seminar on

“MATLAB and its Applications”
In Association with IQAC and IIC



Dr. K. Harshavardhana Reddy
Associate Professor
Department of E&CE
East Point College of Engineering and
Technology



On 24th November 2023
at 10.00AM



Venue : AC Seminar Hall



Objective of the Seminar:

The objective of the seminar was to provide an in-depth exploration of MATLAB, a powerful numerical computing environment widely used in engineering, science, and academia. The aim was to familiarize participants with MATLAB's capabilities, features, and applications, fostering a deeper understanding of how it can be leveraged in diverse fields.

Resource Person of the Seminar:

Resource Person of the seminar was Dr. K Harshavardhana Reddy, Associate Professor, Department of ECE, East Point College of Engineering and Technology

About Resource Person:

CURRICULUM VITAE

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Brief profile:

Senior Manager / Head – Research & Development / Senior Technical Writer

- Seeking challenging assignment with a reputable organization to utilize acquired skills & knowledge and deliver outstanding performance in corporate industry/energy sector/Academics.
- Proficient in effective communication with stakeholders, building & sustaining robust relationships. Skilled in empathizing with young minds, mentoring innovation and fostering excellence.
- Proactive, achievement driven professional with excellent coordination, organizing, planning and execution skills.
- Create a robust learning ecosystem by establishing Industry Institute Integrated Learning Programs in association with top product companies to empower students/staff with employable and deploy-able skill sets.
- Skilled in providing professional consultancy services to clients in government & industry.
- Currently Working as Associate Professor/Research in the Dept. of ECE, EPCET, Bangalore.
- I have 8 years of experience in design, development of control algorithms for various applications like EVs, and Control System Engineering.
- Further i have experienced in Artificial Intelligence, Machine Learning, signal processing, Sensors and PLCs.
- Experienced writing articles, research papers and publishing.

Technical Skills

- MATLAB (Programming and Simulink), Python, PSpice
- Experienced in MIL & SIL
- Statistical tests (T-test, ANOVA & Chi-Sq), Probability distributions and types
- Sensor systems Technology
- Experienced in machine learning algorithms like decision trees, Support vector machines, etc.
- Experienced in deep learning algorithms like Convolutional neural networks, Recurrent neural networks, Reinforcement Learning Algorithms, Fuzzy Logic Systems, Adaptive Neuro Fuzzy Inference Systems (ANFIS).
- Experienced in MATLAB programming for signal processing applications.
- Strong mathematical Skills
- Strong in MS Office
- Experience handling PLC and SCADA

Insights from Seminar:

Dr. K Harshavardhana Reddy, Associate Professor, Department of ECE, East Point College of Engineering and Technology delivered the topic in “MATLAB and its Applications . The seminar on MATLAB and its applications proved to be a comprehensive journey into the world of numerical computing. MATLAB, a versatile tool, was showcased for its prowess in data analysis, simulation, and algorithm development. Participants gained insights into its user-friendly interface and learned to harness its capabilities for solving complex mathematical problems. Practical demonstrations illustrated MATLAB's application in signal processing, image analysis, and machine learning, highlighting its relevance across various domains.

The seminar successfully bridged theory and practice, empowering attendees to apply MATLAB in their research and projects. Overall, it provided a valuable platform for knowledge exchange and hands-on learning, making MATLAB a valuable asset in the participants' toolkits.

Snapshots from seminar are presented below.





The Seminar was concluded at 12.30pm. The seminar ended with the vote of thanks by Dr. Pradeep Kumar N.S., HOD, ECE, SEACET. Feedback form was collected at the end of the seminar from the students. The Seminar was highly informative and thus provided valuable awareness and insights on the various aspects of in MATLAB.

Seminar Outcome:

- Enhanced Understanding of MATLAB's Functionality
- Practical Application Across Diverse Fields
- Empowerment for Research and Project Work