



DAYANANDA SAGAR  
UNIVERSITY



SCHOOL OF  
ENGINEERING

## SOE - "The Weekly Buzz"

The Official Weekly Newsletter of **School of Engineering**



Week#16 (April 14 to 19th, 2025)

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# SCHOOL OF ENGINEERING

## VISION

- Transform lives through excellence in engineering education, research and innovation with an emphasis on sustainability, inclusive technologies and global needs.

## MISSION

- Design and deliver contemporary engineering curricula to address regional and global needs while emphasizing ethics, values, integrity and regional relevance.
- Carryout high impact academic research, industry projects and innovation activities with active student engagement to advance science and engineering knowledge and state-of-the art industry practices.
- Develop regional and national leaders to advance the society and economy.

# Faculty Contributions

## Department Of CSE (AIML)

Dr. Shreyas Rajendra Hole, Assistant Professor at Dayananda Sagar University, delivered two expert talks organized by Dr. Rajendra Gode Institute of Technology & Research, Amravati, on 17th April 2025. In the first session, hosted by the Department of Applied Science & Humanities, he spoke on "Emerging Trends of Renewable Energy Using Artificial Intelligence," focusing on the integration of AI technologies such as machine learning, deep learning, and optimization algorithms into renewable energy systems for enhanced efficiency, predictive maintenance, and smart grid management. The talk offered valuable insights into AI applications in solar and wind energy, intelligent storage systems, and real-time monitoring, fostering awareness among faculty, students, and research scholars about cutting-edge developments and potential research opportunities in AI-driven renewable energy solutions. In a separate session organized by the Department of Computer Science and Engineering, Dr. Shreyas Rajendra Hole delivered a talk on "Significance of Research in Academics," emphasizing the crucial role of research in advancing academic excellence, fostering innovation, and bridging the gap between theory and practice. He discussed methodologies, research ethics, publication strategies, and interdisciplinary collaborations, inspiring young researchers to contribute meaningfully to academia and industry. Dr. Shreyas Rajendra Hole was recognized with Certificates of Appreciation for his valuable contributions in both sessions.



Dr. Shreyas Rajendra Hole, Assistant Professor at Dayananda Sagar University, delivered an insightful expert talk on the topic "From Idea to Protection: Filing Copyright Made Easy" on 16th April 2025. This session was organized by the IPR Cell of Prof. Ram Meghe Institute of Technology & Research, Badnera, Amravati, Maharashtra. The talk aimed to simplify the process of copyright filing for academicians and innovators, guiding them through the essentials of intellectual property rights, legal procedures, and documentation required for protecting original works. In recognition of his valuable contribution, Dr. Hole was honored with a certificate of appreciation from the organizing committee.



Dr. Shreyas Rajendra Hole, Assistant Professor and Ajeeb Sagar (ENG22AM0071), 6th semester student from Dept. of CSE (AI&ML) has published a research paper titled "Optimizing Solar Radiation Forecasting for Renewable Energy Systems: A Comparative Analysis of Machine Learning and Feature Engineering Techniques", published in the journal Solar Energy and Sustainable Development, a refereed biannual scientific journal issued by The Libyan Center for Solar Energy Research and Studies.

DOI : <https://doi.org/10.51646/jsestd.v14i1.386>

Dr. M Lakshmanan, Assistant Professor from department of CSE(AI&ML) has awarded the certificate in appreciation of publishing research in a Q1 journal during the course of the Ph.D. Degree (Reg No. 21144991512).



The Department of Computer Science & Engineering and the Department of Computer Science & Design at Erode Sengunthar Engineering College (Autonomous), Perundurai, Erode, successfully hosted a three-day national workshop titled “Advanced Automotive Technology (AAT) for E-Mobility in xEVs: Innovation and Future Trends” from April 15 to 17, 2025. Sponsored by ANRF, the event featured expert sessions by distinguished resource persons, including Prof. Bharath M. B., Assistant Professor, CSE, SOE, and Prof. Pradeep Kumar K., Assistant Professor, CSE (AI & ML), who provided deep insights into the rapidly advancing domain of e-mobility and its future trajectories. The workshop created a vibrant platform for knowledge exchange, fostering innovation and collaborative learning among participants. The event was successfully coordinated under the leadership of Dr. Vijay Franklin, Dr. S. Tamil Selvan, Ms. J. S. Sharanyanivaisini, and Ms. Kowsalya M.

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

Department of Computer Science & Engineering  
Department of Computer Science & Design

Organizing  
ANRF Sponsored

Three Days National Workshop on  
**Advanced Automotive Technology (AAT) for E-Mobility in xEVs: Innovation and Future Trends\***  
15<sup>th</sup> to 17<sup>th</sup> April 2025

Resource Persons :

<b>Dr. Bharath M. B.</b> Assistant Professor, CSE, SOE, Erode Sengunthar Engineering College, Perundurai, Erode.	<b>Dr. Pradeep Kumar K.</b> Assistant Professor, CSE (AI & ML), Erode Sengunthar Engineering College, Perundurai, Erode.	<b>Dr. Vijay Franklin</b> Assistant Professor, CSE, Erode Sengunthar Engineering College, Perundurai, Erode.	<b>Dr. S. Tamil Selvan</b> Assistant Professor, CSE, Erode Sengunthar Engineering College, Perundurai, Erode.
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President: Dr. V. Anandharaj  
Conveners: Dr. Vijay Franklin, Ms. J. S. Sharanyanivaisini, Ms. Kowsalya M., Dr. S. Tamil Selvan  
Organizing Secretary: Ms. Kowsalya M., Ms. Sharanyanivaisini  
President: Dr. V. Anandharaj

*All are cordially invited*



## Department Of CSE (Cyber Security)

Dr. Durbadal Chattaraj, Associate Professor & Chairperson, CSE (CY) along with students Mr. Srihari K. B. (ENG21CY0043) and Mr. Bansidharee Maji (ENG22CY0006) from Dayananda Sagar University, achieved a notable academic milestone with the publication of two IEEE conference papers at the IEEE International Conference on High Performance Computing, Data, and Analytics Workshops (HiPCW 2024).

The first paper, titled “Performance Enhancement of Cyber Range through HPC: Issues and Challenges” (DOI: 10.1109/HiPCW63042.2024.00073), explores the integration of High Performance Computing (HPC) in cyber ranges to simulate complex cybersecurity scenarios and improve training outcomes.

The second paper, “Utilization of HPC for Designing Modern Cryptographic Protocols: Analysis and Observation”(DOI: 10.1109/HiPCW63042.2024.00078), presents critical insights into leveraging HPC for developing advanced cryptographic frameworks. Both papers highlight the team's commitment to pushing the boundaries of cybersecurity research and innovation through HPC technologies.

On the occasion of World Quantum Day, Thakur College of Engineering & Technology (TCET), hosted a special online session titled “Post Quantum Cryptography”. This insightful webinar, held on Thursday, 17th April 2025, from 3:15 PM to 4:15 PM, featured Dr. Devipriya V S, Assistant Professor, Department of CSE (Cyber Security), Dayananda Sagar University, Harohalli, Bangalore. The event was organized as part of a joint initiative by DST & AICTE. Dr. Devipriya shared valuable perspectives on the future of cryptography in the era of quantum computing, addressing challenges and emerging solutions in cyber security. The session saw enthusiastic participation from students and faculty, contributing to a vibrant discussion on a topic of global significance.

# Departmental Activities

## Department Of Artificial Intelligence & Robotics

### Explores Collaboration with Wefaa Robotics

The Department of Artificial Intelligence and Robotics successfully organized a collaborative interaction with Wefaa Robotics, a prominent Singapore-based robotics company, on March 28, 2025. Facilitated by Skandish, the meeting aimed to explore academic-industry partnerships in the fields of robotics and intelligent systems. Wefaa Robotics showcased their innovative technologies in autonomous systems, humanoid robotics, and AI-driven automation, while also highlighting ongoing collaborations with Indian universities. The session opened avenues for joint research projects, student internships, faculty training, and development of educational tools. The discussion concluded with a shared vision for future collaborations, including innovation labs and industry-focused workshops, strengthening the bridge between academia and industry.



# Student Activities

NISHANT SREEKUMAR(ENG23RA0039), 4<sup>th</sup> Sem Student of AI and Robotics has successfully completed the Software Engineering Job Simulation course offered by JPMORGAN CHASE & CO. on April 13th, 2025.



A team of talented third-year students from Dayananda Sagar University secured the Runner-Up position at the prestigious RoTech Hackathon held at BMS College of Engineering. The 12-hour app development challenge, themed “CRACK THE CODE,” centered around creating innovative tech solutions for real-world social impact. The DSU team – Yogesh N (ENG22AM0070), Syed Fuzail (ENG22CS0476), Suhaib Yasir (ENG22CS0189), and Sathish S (ENG22CS0153) – impressed judges with their project SahaayAI, a voice-based, emotionally intelligent AI companion designed to support senior citizens in navigating digital services and maintaining emotional well-being. Their thoughtful and inclusive solution earned them the Runner-Up title and a cash prize of ₹8,000, celebrating their vision for empathetic and accessible technology.



Students from the Department of Computer Science and Engineering (Data Science) actively participated in the 2025 edition of TCS Tech Bytes, a prestigious Statewide Inter-College IT Quiz organized by Tata Consultancy Services (TCS) in collaboration with the Board for IT Education Standards (BITES), Government of Karnataka. Held on April 8, 2024, the event brought together engineering talent from across the state to test their knowledge and skills in the field of information technology. Representing the department were Sachin Chandram Bhosagi (ENG22DS0014), Kumar Mukund (ENG23DS0069), Sai Krishna S (ENG23DS0083), and Amit Singh (ENG23DS0096), who demonstrated commendable enthusiasm and competitive spirit throughout the quiz.





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