



DAYANANDA SAGAR
UNIVERSITY



SCHOOL OF
ENGINEERING

SOE - "The Weekly Buzz"

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



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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 Computer Science and Engineering

Dr Revathi V, Associate Professor, Department of CSE has participated as a delegate in the 5th Edition of the Healthcare Summit 2025 held on 13th & 14th June 2025 at IISC, Bangalore.



Department Of CSE (Data Science)

Prof. Shivamma D., Assistant Professor, Department of CSE (Data Science), attended the Women in Data Science (WiDS) Bangalore @ Intuit event on June 12, 2025, at Intuit's Bangalore office. The sessions focused on emerging trends in Generative AI and Agentic AI, highlighting their industry applications and academic relevance.



Department Of CSE (Cyber Security)

Dr.Mubeen Ahmed Khan has presented paper entitled Adaptive Multi Stream Modified CNN-LSTM Based Real-Time Sign Language Translation with 3D Pose Estimation and Temporal Modelling in 2025 International Conference on Computing Technologies (ICOCT) Organized by Jyothy Institute of Technology, Bengaluru.

Dr.Mubeen Ahmed Khan has published a book chapter titled” Optimisation Strategies for Next-Generation AI, ML, and IoT Applications” published in “Applications of Computational Learning and IoT in Smart Road Transportation System”. This chapter explores the transformative role of computational learning techniques and the Internet of Things (IoT) in building smart, adaptive, and efficient road transportation systems. By integrating AI-driven optimization with real-time sensor data, the work provides deep insights into future-ready traffic management and transportation analytics. Book Series: Springer Tracts on Transportation and Traffic (STTT), Volume 22, First Online: 09 May 2025, Chapter Pages: 163–184, Publisher: Springer Nature.

Dr. Dilip Kumar Jang Bahadur Saini has successfully organized a special session on the topic “Recent Trends and challenges in Artificial Intelligence , Biomedical Science and Healthcare Informatics for Society 5.0 using New Age Technologies” for the First International Conference on Artificial Intelligence, Computation, Communication and Network Security (AICCoNS 2025) held in the University of Wollongong in Dubai, 5-6 June 2025.



Department Of CSE (AIML)

Dr. Vinutha N, Associate Professor, Dept. of CSE (AI&ML) published a conference paper titled " Dynamic Slice Selection based 3D Brain tumour Volumetric Segmentation", at the 5th International Conference on Data Science and Applications (ICDSA), 2024.

https://link.springer.com/chapter/10.1007/978-981-96-1188-1_16

Dr. Vinutha N, and Dr. Jayavrinda V, Associate Professor and Professor, Dept. of CSE (AI&ML) published a conference paper titled "NeuroTransformer: Transformer Model for Motor Imagery Classification", at the 5th International Conference on Data Science and Applications (ICDSA), 2024.

https://link.springer.com/chapter/10.1007/978-981-96-1188-1_24

Prof. Ankitha Takkar, Assistant Professor, Dept. of CSE (AI&ML) received the certificate in recognition of their ability to effectively utilize the knowledge and skills acquired during the Wadhvani Faculty Development Program to facilitate the Wadhvani Foundation's Ignite program and its variants. This achievement reflects their practical engagement with and commitment to implementing entrepreneurship programs to their students.



Dr. Shreyas Rajendra Hole, Assistant Professor, Dept. of CSE (AI&ML) has presented paper entitled “Adaptive Multi Stream Modified CNN-LSTM Based Real-Time Sign Language Translation with 3D Pose Estimation and Temporal Modelling” in 2025 International Conference on Computing Technologies (ICOCT) Organized by Jyothy Institute of Technology, Bengaluru.



Dr. Shreyas Rajendra Hole, Assistant Professor, Dept. of CSE (AI&ML) has successfully organized a special session on the topic “Recent Trends and challenges in Artificial Intelligence, Biomedical Science and Healthcare Informatics for Society 5.0 using New Age Technologies” for the First International Conference on Artificial Intelligence, Computation, Communication and Network Security (AICCoNS 2025) held in the University of Wollongong in Dubai, 5-6 June 2025. We sincerely appreciate his support and commitment to the academic and research community.

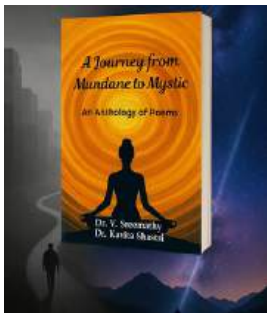


Dr. Shreyas Rajendra Hole, Assistant Professor, Dept. of CSE (AI&ML) has published a conference title “Machine Learning and Artificial Intelligence for Predictive Modeling in Antimicrobial Resistance Data sets, Challenges, and Future Directions.” in the 3rd International Conference on Smart Systems for applications in Electrical Sciences (ICSSES), 2025.



Department Of Humanities

We are delighted to announce the upcoming release of *A Journey from Mundane to Mystic: An Anthology of Poems*, co-authored by Dr. V. Sreemathy, Assistant Professor – Technical English, School of Engineering, DSU, and Dr. Kavita Shastri. This soul-stirring collection takes readers on a poetic voyage from the ordinary experiences of daily life to profound mystical insights. Blending spiritual depth with lyrical beauty, the anthology offers a meaningful exploration of inner transformation. The book is now open for pre-orders and promises to resonate deeply with poetry lovers and seekers of truth alike.



Department Of Electronics and Communication Engineering

We are pleased to share that Ms. Sneha Sharma, faculty member of the Department of Electronics and Communication Engineering, School of Engineering, Dayananda Sagar University, Bengaluru, presented a research paper titled: “Enhanced Video Super-Resolution Using Residual Recurrent Convolutional Networks” at the International Conference on Recent Advancements in Artificial Intelligence & Soft Computing (ICAISC 2025) held on June 5th & 6th, 2025, at Methodist College of Engineering & Technology, Hyderabad, Telangana. This participation highlights the department’s continued contributions to cutting-edge research in artificial intelligence and computer vision.



We are delighted to announce that Dr. Navya R, Assistant Professor in the Department of Electronics and Communication Engineering, School of Engineering, Dayananda Sagar University, Bengaluru, has been awarded a Reviewer Certificate by Springer Nature. This recognition is in appreciation of her valuable contributions to the peer-review process for the Journal of Nanoparticle Research.

Dr. Navya R reviewed two manuscripts in 2025, showcasing her commitment to academic excellence and contributing to the advancement of research in the field of nanotechnology.



Departmental Activities

Department Of Computer Science and Engineering

A short-duration lecture on the NEO Lab Evaluation Tool was conducted by the Department of Computer Science and Engineering (CSE), SOE, DSU on 12th June 2025 at 11:00 AM in Lab No. A406, K. Chidananda Gowda Common Computer Centre 2. The session was facilitated by Mr. Arun KK and his team from lamNeo Private Ltd, who delivered a comprehensive demonstration of the NEO Lab Evaluation Tool. The demonstration covered key features such as course content customization, assessment/quiz conduction, analytics, and programming support for faculty and staff. The event was well-received and provided valuable insights into enhancing teaching and evaluation methodologies.

The session was co-ordinated by Dr. Girish G. S. (Chairperson, CSE) and Dr. Shashikiran V. (Associate Professor, CSE).



“Industry Visit IBM”

On 13th June 2025, the School of Engineering, Dayananda Sagar University, organized an insightful industry visit to IBM India Private Limited, Bangalore. The session began with a warm welcome by Mr. Jagadisha Bhat, Country Manager – IBM Technology Expert Labs. Dean SOE Dr. Udaykumar Reddy introduced Hon. Vice Chancellor Dr. B. S. Sathyanarayana, along with the DSU team and faculty members. This was followed by key presentations on cutting-edge topics including IBM Security, Quantum Computing, Cyber Range, and WatsonX AI. Notable speakers such as Ms. Sushma Hegda, Mr. Ravi Malik, Mr. Sriram (DSU alumnus), Mr. Shesha Raghunathan, and Mr. Vaibhav shared valuable insights on cybersecurity trends, quantum algorithm applications, and enterprise-ready AI models. The visit opened avenues for academic collaboration in cyber-attack prevention tools, quantum computing, and AI-driven innovations, with potential engagement in national initiatives like the National Quantum Mission. This interaction marked a significant step in bridging academic excellence with industry leadership.



Cyber Security Resource- Ravi Malik



Quantum Computing Resource - Shesha Raghunathan



IBM Watsonx AI- Mr.Vaibhav



Cyber Range- Sriram

At the Mission Admission 2025 panel discussion hosted by the Times of India, Dr. Udaya Kumar Reddy K. R., Dean of the School of Engineering, Dayananda Sagar University, shared insights on how engineering education is adapting to the age of Artificial Intelligence. Emphasizing the role of AI tools like ChatGPT as enhancers rather than replacements, he stressed the importance of foundational knowledge and critical thinking. The panel highlighted trends such as interdisciplinary learning, experiential pedagogy, industry collaborations, and skill-based training aimed at equipping students for future challenges. Dr. Reddy's contributions reflected DSU's proactive role in reshaping engineering education to meet the demands of an AI-driven world.

THE TIMES OF INDIA

Mission Admission 2025: How engineering curriculum adapts to Artificial Intelligence, industry needs



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On 14th June 2025, Dr. Prabhakar M. and Dr. Nixon, Professors from the Department of CSE, School of Engineering, Dayananda Sagar University (DSU), visited the AR-VR Lab at REVA University, Bangalore North. During the visit, they engaged with the lab coordinators to understand the available infrastructure, collected vendor details, and explored the various ways the lab is utilized for student learning and project development. The visit also included a tour of additional student project facilities on campus. The insights gained from this visit are expected to significantly contribute towards establishing a similar state-of-the-art AR-VR lab at DSU.





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