



DAYANANDA SAGAR
UNIVERSITY



SCHOOL OF
ENGINEERING

SOE - "The Weekly Buzz"

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



Week#18 (April 28th to May 03rd 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.

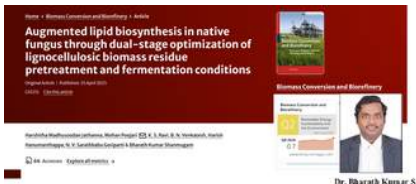
Faculty Contributions

Department Of Artificial Intelligence & Robotics

Dr. Rupam Bhaduri, Professor in the Department of AIRO, School of Engineering at Dayananda Sagar University (DSU), has been formally recognized by Wiley for his contribution as a peer reviewer for the prestigious journal International Transactions on Electrical Energy Systems. He completed the review of a manuscript in 2024, contributing to the rigorous peer-review process that ensures the integrity and quality of scholarly publications. The university congratulates Dr. Bhaduri on this achievement and commends his dedication to advancing academic research.



Dr. Bharath Kumar S, Assistant Professor, SOE, DSU, has co-authored a research article titled “Augmented lipid biosynthesis in native fungus through dual-stage optimization of lignocellulosic biomass residue pretreatment and fermentation conditions.” The paper was published in the prestigious journal Biomass Conversion and Biorefinery on 25 April 2025. This collaborative study explores advanced strategies for enhancing lipid production using fungal systems through optimized biomass pretreatment and fermentation, contributing to sustainable bioenergy development.



Department Of Computer Science and Engineering

Dr. Bipin Kumar Rai, Professor in the Department of CSE has been formally recognized by Springer Nature for his contribution as a peer reviewer for the prestigious journals in 2024.



Dr. Bipin kumar Rai, Professor, CSE department contributed as reviewer in the 3rd International Conference on Automation and Computation (IEEE: AUTOCOM-2025) organized by GRAPHIC ERA HILL UNIVERSITY, Deharadun.



Department Of CSE(Cyber Security)

Dr. Mubeen Ahmed Khan has successfully completed a one-week online Faculty Development Program (FDP) organized by Annant Gyan Knowledge and Skills Private Limited. The FDP, titled “Smart Environments: Technologies, Applications, and Future Trends (SETF-2025)”, was held from 21st April to 26th April 2025. This program aimed to explore the latest advancements and emerging trends in smart environments and their wide-ranging applications in various sectors.



Department Of Electronics and Communication Engineering

Dr. Pushpa Mala S, Associate Professor, and Dr. Supraja Eduru, Assistant Professor, from the Department of Electronics and Communication Engineering, School of Engineering – Dayananda Sagar University (DSU), were recognized for their contributions at the 3rd IEEE International Conference on Knowledge Engineering and Communication Systems (ICKECS-2025), held at SJC Institute of Technology, Chikkaballapur, in association with the IEEE Bangalore Section on April 28–29, 2025.

Dr. Pushpa Mala S served as a Session Chair and was awarded a Certificate of Appreciation, while Dr. Supraja Eduru received a Certificate of Reviewer Recognition for her efforts in peer-reviewing research papers. Their involvement reflects DSU's dedication to research excellence and active engagement in global academic forums.



Department Of CSE (AIML)

Dr. M Lakshmanan, Dr. Mude Nagarjuna Naik, Prof. Sriramkumar R, Assistant Professors, Department of CSE(AI&ML) has received the certificate for presenting a paper titled Blockchain-Based-Framework for Enhancing Privacy and Security of Health Care Data Using Hybrid Consensus Algorithms at the Fourth International Conference on Deep Sciences for Computing and Communications (IconDeepCOM-2025) organized by the Department of Computational Intelligence, School of Computing, SRM Institute of Science and Technology, Kattankulathur, Tamilnadu, India in association with Universiti Putra Malaysia, Serdang, Malaysia on April 29th & 30th, 2025.



Dr. Mude Nagarjuna Naik, Assistant Professor, Department of CSE(AI&ML) has received the certificate for presenting a paper titled INTELLIGENT VIDEO SURVEILLANCE SYSTEM : AI-Powered Real-Time Monitoring and Threat Detection at the Fourth International Conference on Deep Sciences for Computing and Communications (IconDeepCOM-2025) organized by the Department of Computational Intelligence, School of Computing, SRM Institute of Science and Technology, Kattankulathur, Tamilnadu, India in association with Universiti Putra Malaysia, Serdang, Malaysia on April 29th & 30th, 2025.



Dr. Joshua Arockia Dhanraj, Associate Professor in the Department of CSE (AI&ML), received certificates for presenting three research papers at the Fourth International Conference on Deep Sciences for Computing and Communications (IconDeepCOM-2025), held on April 29th & 30th, 2025. The conference was organized by the Department of Computational Intelligence, School of Computing, SRM Institute of Science and Technology, Kattankulathur, Tamil Nadu, India, in association with Universiti Putra Malaysia, Serdang, Malaysia.

The presented papers were titled:

- A Data-Driven Digital Twin Approach for Predicting State of Charge and Health in Lithium-Ion Batteries Using Attention-based RNN and DBNN.
- Integrating IoT and Random Forest Classifier for Crop Recommendation and Cultivation: Real-Time Analysis of Nitrogen, Phosphorus, Potassium, and pH in Soil.
- AI-Driven Precision Diagnosis through Enhancing Healthcare Efficiency with Ensemble Machine Learning Models.



Departmental Activities

Department Of Electronics and Communication Engineering

The Department of Electronics and Communication Engineering, under the Electroblitz Club of Dayananda Sagar University, Harohalli Campus, successfully organized the national-level robotics competition “RoboSoccer 2025 – The Ultimate Soccer Battle” on 25th and 26th April 2025. This 30-hour on-campus event brought together 144 participants forming 36 teams from premier institutions across India, such as Bharati Vidyapeeth (Mumbai), MSRIT, B.S. Abdur Rehman Institute (Tamil Nadu), and various DSU campuses.

The event was inaugurated by distinguished guests Dr. Ambar Bajpai (GITAM University) and Mr. Vinod Shankar (CEO, AIC-DSU), who inspired participants with insights into AI and robotics. Dr. Udaya Kumar Reddy K R (Dean, SoE) and Dr. Arun Balodi (Chairperson, ECE) emphasized the importance of such events in fostering interdisciplinary learning and technological innovation. The ceremony also saw the unveiling of the ECE department’s magazine “Electroclips”.

Day 1 featured the Obstacle Course Challenge, testing the agility, speed, and problem-solving skills of student-built autonomous robots. Teams navigated an unpredictable track with mechanical and sensor-based decision-making.

Day 2 hosted the intense RoboSoccer knockout rounds, where robots battled one-on-one on a custom-designed soccer arena. The top 8 teams from Round 1 advanced to this final stage after being evaluated on both engineering design and task execution.

Winners:

- 1st Prize: Tech X-1 – Rajarajeshwari College of Engineering (Pavan B)
- 2nd Prize: Vishakh Rakshith – CSE Dept., DSU
- 3rd Prize: Tech X-2 – Rajarajeshwari College of Engineering

🏆 Special Awards:

Best Obstacle Course: Qasim Johar – Aerospace Dept., DSU

Best RoboSoccer Performance: Yashas Rajesh – ECE, DSU

Best Technical Design: Yash Chipkar – MSRIT (Kill Switch)

The event concluded with a valedictory function graced by Dr. Puttamadappa C (Registrar), Dr. Udaya Kumar Reddy, Dr. Ambar Bajpai, and Dr. Arun Balodi, where they applauded the participants' innovation, collaboration, and competitive spirit. Dr. Arun Balodi delivered a heartfelt vote of thanks, highlighting the importance of teamwork, creativity, and hands-on learning.

RoboSoccer 2025 was a resounding success, embodying DSU's commitment to experiential education, student innovation, and academic-industry synergy.





Departmental Activities

Department Of Artificial Intelligence & Robotics

An expert session titled "Connected AI in Trucks and Buses" was conducted by the Department of Artificial Intelligence and Robotics at Dayananda Sagar University on 29th April 2025, in collaboration with Roboverse. The session featured Mr. Jayaprakash Govindaraju, Deputy General Manager – Senior Technical Manager at Daimler Truck Innovation Centre, India.

During the session, Mr. Govindaraju provided in-depth insights into the transformative role of Artificial Intelligence in the commercial transportation sector, particularly in enhancing connectivity, safety, and operational efficiency in trucks and buses. The event was highly interactive, with active participation from both students and faculty, reflecting the growing interest in real-world AI applications.

The session was coordinated by Dr. Gangadhar T. G., Dr. Rupam Bhaduri, and Dr. Bharath Kumar S, under the guidance of Dr. Pramod Kumar Naik (Chairperson) and Dr. Udaya Kumar Reddy K R (Dean, School of Engineering). The initiative reinforces DSU's commitment to fostering strong industry-academia collaboration and exposing students to cutting-edge technological advancements.

Dayananda Sagar University
ROBOVERSE
DAILY TRUCK
Innovation Center India

CONNECTED AI IN TRUCKS AND BUSES

Discover How AI is Transforming the Future of Transportation!

Join **Mr. Jayaprakash Govindaraju**
Deputy General Manager – Senior Technical Manager,
Daimler Truck Innovation Centre, India

For an insightful session on the latest advancements in Connected AI for Trucks and Buses.

Tuesday, 29 April, 2025 | **Time: 6:20PM** | **Location: Hall - 3, 906, DSU**

Chief Guest: Dr. Gangadhar T. G., Dr. Rupam Bhaduri, Dr. Bharath Kumar S.
Hosted by: Dr. Pramod Kumar Naik, Head, Department of AI & Robotics.
Co-Organized by: Dr. Udaya Kumar Reddy K R, Dean, School of Engineering.

Faculty Members and Students of Department of Artificial Intelligence and Robotics



Department Of CSE(Cyber Security)

The Department of Computer Science and Engineering (Cyber Security), in association with the CySec Club, organized an enlightening seminar on "IoT & Hardware Security" on Monday, 28th April 2025. The event was hosted virtually via Google Meet from 03:00 PM to 04:00 PM, drawing participation from students, faculty, and cybersecurity enthusiasts. The keynote speaker for the session was Mr. Teja Chintalapati, Senior Program Manager at the Data Security Council of India (DSCI). He shared his deep insights into the growing challenges of securing IoT ecosystems and hardware infrastructure in the age of interconnected devices. His expert perspective covered critical threats, best practices in embedded device security, and evolving trends in hardware-layer protection. This seminar served as an excellent opportunity for students to understand real-world applications and threats related to IoT and hardware systems, fostering a culture of research and awareness in next-generation security solutions.

The poster is a vertical rectangular graphic with a dark blue background and a network-like pattern of glowing nodes and lines. It is divided into three main vertical sections. The left section contains event details: a calendar icon for the date 'Monday 28th April, 2025', a clock icon for the time '03 PM - 04 PM', a location pin icon for the Google Meet link 'https://meet.google.com/ues-yaoi-rbt', a QR code with a purple '2' in the center, a 'SCAN TO REGISTER' button, and 'HOSTING PARTNERS' with the School of Engineering logo. The middle section features the logos of Davanand Sadar University and the School of Engineering, followed by the text 'Department of Computer Science and Engineering (Cyber Security)', 'In Association With CYSEC CLUB', and 'Welcomes'. Below this is a circular portrait of Mr. Teja Chintalapati, with his name and title 'Senior Program Manager DSCI (Data Security Council of India)' underneath. At the bottom of the middle section, the text 'SEMINAR ON IOT & HARDWARE SECURITY' is written in large, glowing purple and blue letters. The right section lists 'CONVENERS' (Dr. Udaya Kumar Reddy K R and Dr. Durbadal Chattaraj), 'FACULTY CO-ORDINATORS' (Dr. Desipriya V S and Prof. Ranjina P), and 'STUDENT CO-ORDINATORS' (Prajwal N Halbi and Raveena Dharmappa).

Monday
28th April, 2025

03 PM - 04 PM

<https://meet.google.com/ues-yaoi-rbt>

SCAN TO REGISTER

HOSTING PARTNERS

SCHOOL OF ENGINEERING

DAVANAND SADAR UNIVERSITY

SCHOOL OF ENGINEERING

Department of Computer Science and Engineering
(Cyber Security)

In Association With
CYSEC CLUB

Welcomes

Mr. Teja Chintalapati
Senior Program Manager
DSCI (Data Security Council of India)

SEMINAR ON
IOT & HARDWARE
SECURITY

CONVENERS

Dr. Udaya Kumar Reddy K R
Dean, SoE, DSU

Dr. Durbadal Chattaraj
Chairperson,
Dept. CSE (Cyber Security)

**FACULTY
CO-ORDINATORS**

Dr. Desipriya V S
Assistant Professor

Prof. Ranjina P
Assistant Professor

**STUDENT
CO-ORDINATORS**

Prajwal N Halbi
President
CySec, DSU

Raveena Dharmappa
Chair
IEEE, ConSoc, DSU

Department of CSE(AIML)

The Department of CSE (AI & ML), SOE, DSU, hosted an insightful session on April 28, 2025, for pre-final and final year students. The event was also attended by a few second-year students who are planning to pursue higher studies abroad. The program focused on guiding students through the process of applying for MS/MBA programs overseas. The session featured Mr. Nagaraju G, Manager – Offline Marketing (South) at Great Learning, an expert in international education with over 13 years of experience. The program began with a warm welcome by Dr. Jayavrinda Vrindavanam, followed by the speaker introduction by Prof. Trupthi Rao. Mr. Nagaraju walked the students through the entire application journey—from GRE/TOEFL exams, SOPs, and LORs to professor outreach, funding opportunities, and various international courses available at various top universities in the US. The event concluded with a vote of thanks by Prof. Ankita Thakkar.



Department Of Computer Science and Technology

The Eurekathon 2025, held on 29th April 2025 at Lecture Hall A102, brought together 29 dynamic student teams from Dayananda Sagar University (DSU), DSCE, and DSATM for a full day of innovation and problem-solving. Running from 9:30 AM to 4:30 PM, the event served as a creative arena for developing impactful solutions to real-world social challenges.

The judging panel featured Dr. Savitha (Senior Researcher, IBM Watsonx) and Mr. Vinod Shankar (CEO, AIC-DSU Innovation Foundation), with initial idea screening by Dr. Bipin Kumar Rai and Dr. Bahubali Shiragapur.

- First Prize (₹12,000): Team 27 – Godhani Ripal & Supreeth M. (DSU) for Caret, an AI-powered platform enhancing developer productivity.
- First Runner-up (₹9,000): Team 21 – Guruprasad B.K & Gurupadaya (DSATM) for a Shape Memory Alloy-Based Finger Rehabilitation System for Autistic Children.
- Second Runner-up (₹6,000): Team 11 – M. Harshith Raju, Yashaswini R, and Aditya S (DSU) for TRIYO: Try Before You Buy.

The event was honored by the presence of Dr. Udaya Kumar Reddy (Dean, School of Engineering) and Dr. M. Shahina Parveen (Chairperson, CS&T), reaffirming the university's dedication to nurturing innovation and entrepreneurship.



Department Of Humanities

On 29th April 2025, the School of Engineering at Dayananda Sagar University Harohalli Campus hosted the much-anticipated event “Writer’s Quest”, organized by the Literary Society. Held in Room R-221 from 2:45 PM to 4:20 PM, the event brought together 20 students from various branches, all eager to showcase their creative flair.

The competition featured multiple rounds focused on creative writing, including storytelling, poetry, and visual interpretation. Each segment was designed to stimulate both imaginative and analytical thinking. Under the guidance of faculty coordinators Dr. Rochna Roy and Dr. V. Sreemathy, as well as student volunteers, the event ran smoothly and professionally.

Participants not only engaged in timed writing challenges but also benefited from constructive feedback by mentors and peers, helping them enhance their clarity, voice, and style. Winners were recognized with gift vouchers from Sapna Book House and certificates of excellence, reinforcing the event’s commitment to rewarding literary talent.

“Writer’s Quest” successfully provided a platform for students to explore and express their creativity, leaving a lasting impression as a nurturing space for aspiring writers.



Student Activities

A team of 6th semester students from the School of Engineering, Dayananda Sagar University, secured the Runner-Up position at Sentinel Hack 5.0, a prestigious 24-hour National-Level Hackathon organized by KSIT College, Bengaluru. Held from 10:00 AM on 28th April to 2:30 PM on 29th April 2025, the event attracted participation from over 200 students across India.

The team, known as “Team Papz,” included Ms. Samrdhe (ENG22CY0022) from the Department of Cyber Security, and Mr. Sameer S Katte (ENG22CS0148), Mr. Sai Shravan V (ENG22CS0144), and Ms. Chhavi Sharma (ENG22CS0278) from the Department of Computer Science and Engineering.

Their project centered around the Blockchain and Web3 domain, showcasing forward-thinking innovation and technical expertise. Their outstanding work earned them a cash prize of ₹15,000, distinguishing them among numerous high-caliber competitors.



Mr. Darshan B (ENG22CS0044), 6th semester Student, Department of CSE participated in the EURAKTHON and Successfully qualifying in the final round of “EURAKTHON –Unleash Ideas and Ignite Innovation” held on 29/04/2025 at Dayananda Sagar University organized by Department of CST, School of Engineering, DSU, Harohalli.



Mr. Manav Rathod(ENG23CY0025) has successfully earned INE Certified Cloud Associate (ICCA) certification, awarded by INE, a globally recognized leader in networking and cloud training. This certification, issued on May 2, 2025, validates his foundational expertise in cloud technologies, infrastructure, and services—an essential milestone in the journey toward advanced roles in the ever-evolving cloud computing landscape.



Aditya S (ENG23DS0001) secured the Second Runner-Up position in the Eurekathon 2025 competition, organized by the Department of Computer Science and Technology, and was awarded a cash prize of ₹6,000 on 29th April 2025.



A group of students from the Department of CSE (AI&ML) presented their research papers at the Fourth International Conference on Deep Sciences for Computing and Communications (IconDeepCOM-2025), held on April 29th & 30th, 2025. The event was organized by the Department of Computational Intelligence, School of Computing, SRM Institute of Science and Technology, Kattankulathur, Tamil Nadu, India, in association with Universiti Putra Malaysia, Serdang, Malaysia.

- Sayam Adesh Runwal (ENG21AM0111), Tarus Dixit (ENG22AM3010), Varun Kuttappa (ENG22AM3014), and Mohammed Zufishan (ENG21AM0074), 8th semester students, received a certificate for their paper titled INTELLIGENT VIDEO SURVEILLANCE SYSTEM: AI-Powered Real-Time Monitoring and Threat Detection.
- S Shreyas (ENG21AM0103), Prajwal (ENG21AM0087), U Sagar (ENG21AM0104), and Aneesh Bharani P Mittadhar (ENG21AM0009), also from the 8th semester, were awarded certificates for their work on A Data-Driven Digital Twin Approach for Predicting State of Charge and Health in Lithium-Ion Batteries Using Attention-based RNN and DBNN.
- K M N S Silesh (ENG22AM0100) and Nallamalli Venkata Kushal (ENG22AM0116) received certificates for presenting their paper titled Integrating IoT and Random Forest Classifier for Crop Recommendation and Cultivation: Real-Time Analysis of Nitrogen, Phosphorus, Potassium, and pH in Soil.



Ajay Viswanagaraj - ENG22AM0140, Trijal Ranganathan - ENG22AM0167, Amish Murali Rao - ENG22AM0074, 6th Semester students, Department of CSE(AI&ML) has received the Best paper award certificate for presenting a paper titled AI-Driven Precision Diagnosis through Enhancing Healthcare Efficiency with Ensemble Machine Learning Models at the Fourth International Conference on Deep Sciences for Computing and Communications (IconDeepCOM-2025) organized by the Department of Computational Intelligence, School of Computing, SRM Institute of Science and Technology, Kattankulathur, Tamilnadu, India in association with Universiti Putra Malaysia, Serdang, Malaysia on April 29th & 30th, 2025.





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