



DAYANANDA SAGAR
UNIVERSITY



SCHOOL OF
ENGINEERING

SOE - "The Weekly Buzz"

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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 Aerospace Engineering

Dayananda Sagar University (DSU) is pioneering cutting-edge research in Digital Twin technology, leveraging Extreme Gradient Boosting (XGBoost) machine learning algorithms to develop and optimise self-lubricative materials for space applications. This breakthrough research is being conducted in collaboration with Universiti Tenaga Nasional, Malaysia, and Princess Nourah bint Abdulrahman University, Saudi Arabia. DSU's collaboration in this global initiative reaffirms its commitment to advancing Digital Twin Technology for next-generation engineering applications. We thank DSU Management, Dean sir SoE, Dean Research and Chairman sir ASE, for constant support and providing space to execute the research.



Department Of CSE (Cyber Security)

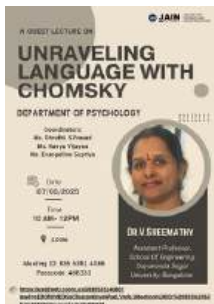
Dr. Dilip Kumar Jang Bahadur Saini has been honoured with the Certificate of Excellence in Reviewing by the Journal of Experimental Agriculture International in recognition of an outstanding contribution to the quality of the journal on 07.03.2025.



Dr. Revathi V, Associate Professor, Department of CSE, has participated in the National Conclave on "Gen AI in College Curriculum" on 8th March 2025, gaining insights into AI's impact on education and future-ready curriculum changes organized by Capabl India in collaboration with the Computer Society of India (CSI).



The Department of Psychology at Dayananda Sagar University is organizing a guest lecture titled "Unraveling Language with Chomsky" on March 7, 2025, from 10 AM to 12 PM via Zoom. The session will be delivered by Dr. V. Sreemathy, Assistant Professor, School of Engineering, DSU. The event, coordinated by Ms. Dhruthi S. Prasad, Ms. Kavya Vijayan, and Ms. Evangeline Supriya, will explore the contributions of Noam Chomsky to linguistics and cognitive science. The lecture aims to provide insightful perspectives on language acquisition and structure, making it an invaluable opportunity for students and faculty interested in psychology and linguistics.



Department Of Electronics and Communication Engineering

Dr. Supraja Eduru, Assistant Professor in the Department of Electronics and Communication Engineering at Dayananda Sagar University, has made significant contributions to enhancing the accessibility of NPTEL courses through advanced Machine Learning-based transcription editing. Actively participating in the NPTEL TransLingua and Chitrlekha platforms, she refined course content to improve clarity and accessibility for a diverse learner base. Her contributions include editing 6.25 hours of transcription for Introduction to Soft Computing (IIT Kharagpur), 4.5 hours for Engineering Fracture Mechanics (IIT Madras), and 6 hours for Sociology of Science (IIT Roorkee). Her dedication to improving educational content underscores the department's commitment to academic excellence and technological advancements in learning, making high-quality technical education more inclusive and accessible.



Dr. Arun Balodi, Chairman of the Department of Electronics and Communication Engineering at Dayananda Sagar University, had the esteemed honor of inaugurating the IEEE Microwave Theory and Technology Society (MTT-S) Student Chapter at Cambridge Institute of Technology, Bengaluru. He was joined by Dr. Ashutosh Kedar, Chair of the IEEE APS/MTTS Bengaluru Chapter, in commemorating this milestone event. The inauguration received an enthusiastic response from students, highlighting their keen interest in microwave technology and its applications. The event emphasized the role of IEEE MTT-S in fostering research, innovation, and collaboration, providing students with valuable opportunities to explore emerging technologies and connect with industry experts. Dr. Balodi encouraged students to actively engage in MTT-S initiatives, emphasizing the importance of continuous learning, networking, and professional growth. The successful launch of this chapter is set to inspire and support future engineers in advancing microwave engineering and technology.



Department Of Computer Science and Technology

The College of Physiotherapy at Dayananda Sagar University extended its heartfelt appreciation to Dr. Santhosh Kumar J, Associate Professor in the Department of CST, School of Engineering, for his insightful session on "Analytics Using Machine Learning in the Medical Domain" held on March 5, 2025. The session provided students and faculty with valuable knowledge, enhancing their understanding of real-time applications of AI in healthcare. The information shared was highly beneficial, fostering a deeper appreciation of technological advancements in medical analytics. The university looks forward to continued collaboration in the future.



Dr. Santosh Kumar has participated in a six-day online Faculty Development Programme (FDP) on "Unlocking Innovation: Research Funding, Proposal Writing and IPR Strategies for Startups" organised by the Department of Electrical and Electronics Engineering, Joginpally B R Engineering College, Hyderabad held from 03rd -08th March, 2025.



Departmental Activities

Department Of Electronics and Communication Engineering

The Department of Electronics and Communication Engineering at Dayananda Sagar University successfully conducted a one-day workshop on "Autonomous System" on March 3, 2025. This workshop provided an immersive learning experience, equipping students with practical knowledge in robotics and automation. Participants engaged in hands-on activities involving IR sensors, PID controllers, and obstacle avoidance applications—fundamental concepts essential for advanced robotics, sensor integration, and AI-driven automation. The event saw the enthusiastic participation of 100 students from first to fourth year, along with students from Vemana Institute of Technology, fostering a collaborative learning environment. We extend our sincere gratitude to Dr. Pushpa P.V., Dr. Navya R and student organizers Pannati S. and Jayashree E. for their dedication in making the workshop a success. A special appreciation goes to Safear Defense Private Limited for sharing valuable insights into the latest advancements in robotics. We also acknowledge the support and guidance of our Chairperson, Dr. Arun Balodi, whose leadership played a pivotal role in the event's success. The overwhelmingly positive feedback from participants reflects the impact of this initiative in preparing students for future careers in automation and autonomous systems.



The ElectroBlitz Club, in collaboration with the Department of Electronics and Communication Engineering at Dayananda Sagar University, successfully hosted TechnoHunt 2025 on March 5, 2025, at the AEC Labs, DSU-SoE. This unique treasure hunt-style competition, infused with a technological challenge, saw enthusiastic participation from 21 teams, each navigating a series of riddles to uncover hidden electronic components required to assemble a Bistable Multivibrator Circuit. The event, skillfully hosted by Ms. Aarthi Nayak Ullal (President) and Mr. Pramath Gopal Bhat (Vice President) of the ElectroBlitz Club, was judged by Dr. Divyashree H.B., Assistant Professor, ECE Department, DSU. Participants were evaluated on their problem-solving abilities, technical expertise, and teamwork, with the winners recognized by Dr. Puttamadappa (Registrar, DSU) and Dr. Arun Balodi (Chairman, ECE Department). The event fostered a spirit of intellectual curiosity, collaboration, and hands-on learning, leaving students with an unforgettable experience. Special appreciation goes to the dedicated volunteers whose efforts ensured the seamless execution of the event, setting a new benchmark for future editions of TechnoHunt.



Department Of Computer Science and Engineering

ServiceNow Placement Training :

The ServiceNow Placement Training, organized by the Placement Cell, DSU, was held from 4th March to 6th March 2025 at LH 2, A Block, Ground Floor, SOE. The training, conducted by Dr. Revathi V, Associate Professor, Dept. of Computer Science and Engineering, aimed to equip students with essential skills in ServiceNow scripting and platform management. As part of the "RiseUp with ServiceNow" initiative, this program bridges the gap between training and employment by fostering collaboration with global and regional placement partners. Over three days, participants engaged in hands-on learning covering Client Scripts, UI Policies, Business Rules, GlideSystem, GlideRecord, Script Includes, Flow Designer Scripting, and JavaScript API. Through interactive lab sessions, students developed, tested, and debugged scripts on their own ServiceNow instances. Upon completion, participants became eligible to take the ServiceNow Certified Application Developer (CAD) exam, enhancing their credentials for IT service management careers.



Alumni Talk “Application of Satellite Image Processing”

The Alumni Talk Series – Session 6 on “Application of Satellite Image Processing”, organized by the Department of Computer Science and Engineering in collaboration with VIVA Club, was held on 6th March 2025 at LH-3. Esteemed alumni Shruti B. Yalgudri (Data Scientist, ALTAIR) and Sumukh Sankarshana M (ML Engineer, IRON MOUNTAIN) shared their inspiring career journeys with 4th and 5th-semester CSE students. They reflected on their transformative experience with Satellite Image Processing, which ignited their passion for research during their time at DSU. Their internships at NIAS Bangalore, where they worked with QGIS for geospatial analysis, played a crucial role in shaping their careers. The session was inaugurated by Dr. Rajesh T. M., who acknowledged their contributions to research and innovation, while Dr. Girisha G. S., Chairperson, CSE, emphasized the impact of alumni achievements on the institution. The interactive Q&A session provided students with valuable insights into research-driven learning and career development. The session left a lasting impression, inspiring students to embrace research as a path to both professional success and personal growth.



"Entrepreneurship, Research and Global Collaboration"

The Scholar in Residence Programme on "Entrepreneurship, Research, and Global Collaboration", held on 5th March 2025 at LH-2, SOE, was jointly organized by the Department of Computer Science and Engineering, Department of International Affairs and the Entrepreneurship Cell. The session was led by Dr. Kalaivani Chellappan, Senior Researcher at Universiti Kebangsaan, Malaysia, who provided valuable insights into the life cycle of a startup, key do's and don'ts, and the challenges of failure in entrepreneurship. The event covered the distinction between Entrepreneurs and Technopreneurs, using a case study on refining an Idli-making machine to illustrate the product development process. Participants explored why companies are founded, essential steps in entrepreneurship, and best practices for professional idea discussions. The session enriched students' understanding of startups and the global entrepreneurial ecosystem, equipping them with essential knowledge to navigate the world of business and innovation.



Department Of CSE (Cyber Security)

Inauguration of Cyber Security Center of Excellence at DSU

The Department of CSE (Cyber Security), in collaboration with SISA, proudly inaugurated the Cyber Security Center of Excellence (CoE) on March 5, 2025, at the School of Engineering, Dayananda Sagar University. The event was graced by Ms. Tanusree Deb Barma, IAS, Deputy Director General, UIDAI, and Mr. Dharshan Shanthamurthy, Founder & CEO, SISA, along with esteemed university leaders, faculty, and students. The CoE aims to drive research, innovation, and industry-focused training in cyber security, digital forensics, and secure coding practices, fostering collaboration between academia, industry, and government. This initiative bridges the gap between theoretical knowledge and real-world applications, equipping students with the skills to become future-ready cyber security professionals.



Department Of Computer Science and Technology

The Department of Computer Science and Technology (CST) at DSU successfully hosted Tradition 2.0 on 7th March 2025, celebrating the harmony of tradition and modern advancements. Coordinated by Dr. Nivetha NRP and Prof. Junaid MP, under the guidance of convenors Dr. Uday Kumar Reddy (Dean, SOE) and Dr. M. Shahina Parveen (Chairperson, CST), the event featured a vibrant mix of on-stage and off-stage competitions. Held at LH 02, the event saw enthusiastic participation from students across disciplines, showcasing creativity, talent, and innovation. Tradition 2.0 provided a platform for students to engage in cultural and technical expressions, fostering a spirit of collaboration while honoring heritage.



Department Of CSE (AIML)

On March 4, 2025, third-semester students from the Department of CSE (AI & ML), SOE, DSU, participated in an Outreach Activity at A Shraya Seva Trust, an old age home. Led by Dr. Shreyas Rajendra Hole, Assistant Professor. CSE (AIML) the visit aimed to bring joy to the elderly and instill social responsibility in students. The event featured interactive games, dance performances, and heartfelt conversations, creating a warm and engaging atmosphere. A special cake-cutting ceremony and a sapling gift symbolized love and remembrance. The elderly shared life lessons, leaving students with a profound sense of empathy and gratitude. This meaningful initiative strengthened the bond between generations and emphasized the joy of giving.



The Department of CSE (AI & ML), Dayananda Sagar University, organized an industrial visit to Vaidyuthi Mobility (VM) on March 6 and 7, 2025, for VI-semester students to explore advancements in electric vehicle (EV) technology and AI integration in the automotive sector. Students observed cutting-edge EV technologies, including dual motor drivetrains, air suspension, and torque-on-demand, while learning about VM's sustainable "Zero Welding, Zero Painting, Zero Wiring, Zero Wastage, and Zero Manpower" approach. A special session by Mr. Hari Vasudevan, Co-Founder & CTO of VM, provided insights into AI applications in electric mobility and future industry trends. The visit bridged theoretical knowledge with real-world applications, fostering industry-academia collaboration and inspiring students to contribute to sustainable and intelligent mobility solutions.

Faculty Coordinator: Dr. Shreyas Rajendra Hole, Assistant Professor, Department of CSE (AI & ML).



Department Of CSE (Data Science)

The Department of CSE (Data Science), Dayananda Sagar University, in collaboration with IEEE ITS, DataScience@DSU Club, and MathWorks, successfully conducted a workshop on "Predictive Power: MATLAB for Data Science" on March 5, 2025. The session, led by Mr. Avinash, Application Engineer at MathWorks, Bangalore, provided hands-on training in MATLAB for data analysis, visualization, and predictive modeling. Participants, including 150+ students and faculty members, explored key concepts in Machine Learning (ML) and Deep Learning (DL), gaining practical insights into data preprocessing, model building, and result interpretation. The workshop fostered an interactive and collaborative learning environment, equipping students with essential skills for advanced data science projects and research. The event, meticulously coordinated by Prof. Shivamma D and Prof. Monish L, concluded with a vote of thanks, acknowledging the contributions of the resource person and enthusiastic participants.



The FIT India Movement Programme 2025 was successfully conducted on March 7, 2025, promoting health, fitness and well-being among students and faculty members at Dayananda Sagar University. Organized by Prof. Shivamma D. and Prof. Monish L in collaboration with the Department of Physical Education, led by Dr. Tilak Kumar, and supported by the Sports Authority of India (SAI), the event saw participation from 250+ students. The programme also celebrated International Women's Day, emphasizing the importance of women's health and fitness. Distinguished guests from SAI and InBody India shared valuable insights on strength and conditioning, nutrition, and body analysis, while free BMI tests encouraged participants to assess their fitness levels. Dr. Udaya Kumar Reddy, Dr. Shaila S G and Dr. Vinod Kumar K C graced the event, reinforcing the university's commitment to holistic well-being. The programme successfully fostered a culture of fitness, inspiring students to incorporate health-conscious practices into their daily lives.



Student Activities

- On 4th March 2025, students from the Department of Aerospace Engineering at Dayananda Sagar University—Revanth Prasad (ENG21AS0035), K. Raghav (ENG21AS0016), and Krish Agrawal (ENG22AS0031)—participated in a seminar hosted by Marie Pierre, the Global Managing Director of Dassault Systèmes. The seminar, titled "The Foundation for Innovation in Aerospace Technology through Digital Solutions," emphasized the transformative role of digital technologies in advancing the aerospace industry.
- Marie Pierre discussed how digital solutions are shaping the future of aerospace engineering, enabling innovation and efficiency. She also encouraged students to pursue projects that have the potential to become marketable products, fostering entrepreneurial opportunities in the sector.
- Dr. Prashantha Kumar H G actively participated in the event alongside the students, engaging in insightful discussions on digital transformation and innovation in aerospace technology. The seminar provided a valuable platform for knowledge exchange, offering students exposure to global industry perspectives and inspiring future advancements in the field.



Department of Aerospace Student SANJANA B, USN# ENG23AS1001, 6th Sem, The Indian Institute of Technology Madras (IIT Madras) hosted the 2nd Digital India RISC-V (DIR-V) Symposium on March 2-3, 2025, at the IIT Madras Research Park. This event brought together experts from around the world, policymakers, startups, academia, and industry pioneers to discuss the future of RISC-V-based processor design and open-source hardware in India. Key highlights included discussions on India's path to semiconductor self-reliance, insights from the SHAKTI processor project, and the strategic alignment with national initiatives like 'Digital India' and 'Make in India.' The symposium emphasized the significance of open-source architectures in advancing India's processor design ecosystem. By embracing RISC-V and initiatives like DIR-V, India aims to strengthen its semiconductor industry and achieve technological self-sufficiency.



Aditya S (ENG23DS0001) and Shashi Kumar (ENG23DS0034) had the incredible opportunity to visit SAP Labs, Whitefield, Bengaluru, for the 1st edition of SAP Inside Track Bengaluru 2025 – Business AI on March 1, 2025. The event featured insightful sessions by industry experts, providing a deep dive into emerging AI trends in business. The students explored Knowledge Pods, gaining hands-on experience with AI-driven financial analysis, CAP extension using JOULE, and innovative SAP products. A key highlight was JOULE, SAP's AI-powered assistant, revolutionizing business efficiency and automation. The experience offered valuable industry exposure, and the students look forward to applying their learnings to real-world AI-driven transformations.

Second year students of the Artificial Intelligence and Robotics Department Mr. Rakshith (ENG23RA0044), and Mr. Nilesh Sarkar (ENG23RA0038) have attended SAP inside track 2025, Organized by SAP LABS, KIADB Export Promotion Industrial Area, Whitefield, Bengaluru, Karnataka conducted on March 1, 2025.



Mr. Manav Rathod (ENG23CY0025), Mr. Veer Gandhi S. (ENG23CY0047) and Mr. Saurav Pandey (ENG22CY0039) actively participated in the "Techo Workshop Series '25" on Cyber Security & CTF Challenge, held on March 8-9, 2025, at IISc Bengaluru. Organized by Techobytes Technologies in collaboration with Rhapsody 3.0 and the Student Council of IISc, the workshop offered valuable insights into the latest cybersecurity trends and ethical hacking techniques.



Women's Day is celebrated

The Library and Information Centre, School of Engineering, DSU, successfully organized a Book Display on General Books (New Arrivals) on March 7–8, 2025, in celebration of International Women's Day. The event showcased a diverse collection of fiction, non-fiction, biographies, and self-improvement books, with a special section highlighting works authored by women in literature, science, history, and leadership. The initiative received an enthusiastic response from students, faculty, and staff, who actively explored the collection and appreciated the library's efforts in promoting reading and knowledge sharing. The success of this event reaffirms the library's commitment to fostering a culture of continuous learning and literary engagement within the university.



The School of Engineering (SOE) at Dayananda Sagar University celebrated International Women's Day 2025 with enthusiasm and grace, honoring the achievements and contributions of women in technology and education. Coordinated by Prof. Pooja Baliga, Prof. Nandini, and the cultural coordinators, the event brought together faculty, students, and staff for a day of inspiring activities. Women faculty members donned shades of purple, symbolizing dignity and empowerment, and exchanged gifts as tokens of appreciation. The celebration featured cultural performances, talent showcases, and a thought-provoking talk by Dr. Shreelakshmi G. on health and empowerment. The event concluded with a heartfelt felicitation ceremony recognizing outstanding women in the department, reinforcing the university's commitment to fostering an inclusive and supportive environment. The collective efforts of Dean Dr. Udaya Kumar Reddy, School of Engineering & Dean Dr. Pushpa Sarkar, School of Health Sciences, department chairpersons, and participants made the day memorable, filled with inspiration, learning, and appreciation.





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