



DAYANANDA SAGAR  
UNIVERSITY



SCHOOL OF  
ENGINEERING

## SOE - "The Weekly Buzz"

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



Week#15 (April 07 to 12th, 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 Computer Science and Engineering

Dr. Gokulakrishnan S, Assistant Professor, Department of CSE presented a paper titled “Designing a Custom Linux Distribution for Improved Accessibility” in the Springer Nature International Conference on Web Intelligence and Human Machine Interaction (ICWIHI 2025) organized by R P Sarathy Institute of Technology, Salem, Tamil nadu, India on 8th to 9th April 2025.



Prof. Mala B A, Assistant Professor, Dept. of CSE, DSU, delivered a guest lecture on “Enhancing Cybersecurity with Blockchain Technology” at Brindavan College of Engineering on 7th April 2025. She explained how blockchain’s decentralized and tamper-proof systems can strengthen cybersecurity, covering key concepts like distributed ledgers, cryptography, and real-world applications. The interactive session was well-received, and the department expressed sincere gratitude for her valuable insights.



Dr. Bipin Kumar Rai, Professor, Department of CSE served as a Session Chair at the 2025 Seventh International Conference on Computational Intelligence and Communication Technologies (CCICT), 11-12 April, 2025 organized by BM Institute of Engineering & Technology, Sonapat, Haryana.



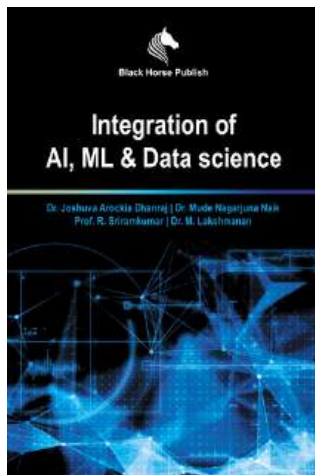
## Department Of Computer Science and Technology

Dr. Santhosh Kumar J, Associate Professor, visited BNM Institute of Technology to serve as an external reviewer for the final year students' project exhibition, 'Capstone Project Expo 2024-25,' held on April 12, 2025, in the Department of Artificial Intelligence and Machine Learning.



## Department Of CSE (AIML)

Faculty members from the Department of CSE (AI & ML)—Dr. Joshuva Arockia Dhanraj, Dr. Mude Nagarjuna Naik, Prof. R. Sriramkumar, and Dr. M. Lakshmanan—have jointly authored a book titled "Integration of AI, ML & Data Science", published by Black Horse Publishing Group. This insightful publication offers a comprehensive exploration of the synergy between Artificial Intelligence, Machine Learning, and Data Science, addressing both foundational principles and real-world applications. It serves as a valuable reference for academicians, researchers, and industry professionals aiming to harness the power of AI-driven technologies across diverse sectors.



## Department Of Electronics and Communication Engineering

Dr. Pushpa Mala S, Associate Professor from the Department of ECE, Dayananda Sagar University, actively participated in the SEMICON Conclave 2025 held on April 12, 2025, at Intel India, Ecospace Business Park, Bangalore. Organized by the IEEE Bangalore Section and technically co-sponsored by Intel, IEEE Young Professionals, and IEEE WIE Bangalore, the conclave centered around the theme “Beyond Moore with Chiplets: Co-Optimization for Next-Gen Semiconductors.” The event brought together leading experts to discuss advancements in semiconductor technology. Dr. Pushpa’s participation underscores DSU’s continued engagement with cutting-edge research and innovation in the evolving semiconductor landscape.

Dr. Arun Balodi, Professor and Chairman of the Department of Electronics and Communication Engineering, School of Engineering, Dayananda Sagar University, attended the prestigious IEEE International Conference on Acoustics, Speech, and Signal Processing (ICASSP 2025) held from April 6–11, 2025, at Novotel & HICC, Hyderabad. Celebrating its 50th Jubilee, ICASSP 2025 marked a historic milestone as it was hosted in India for the first time. The conference brought together leading global researchers and innovators in the field of signal processing. Dr. Balodi’s participation highlights DSU’s dedication to engaging with pioneering research and fostering global academic collaborations in advanced technological domains.



# Departmental Activities

## Department Of Computer Science and Engineering

### “Transition from Business Intelligence to Decision Intelligence”

The Department of Computer Science and Engineering organized a Tech Talk on “Transition from Business Intelligence to Decision Intelligence” on 8th April 2025. The session was delivered by Mr. R. N. Prasad, Founder and Chief Practice Officer at Confluence Consulting Circle.

In his talk, Mr. Prasad highlighted the evolution of data-driven decision-making in modern organizations. He explained how businesses are moving beyond traditional analytics to embrace AI-powered Decision Intelligence (DI), enabling smarter and more agile decision-making. He stressed the importance of integrating AI with human judgment to improve accuracy, efficiency, and adaptability in dynamic work environments.

The session included an engaging video presentation demonstrating real-world DI applications, such as reducing human error, streamlining workflows, and supporting real-time decisions. Mr. Prasad also touched upon how the pandemic accelerated the shift to flexible, data-centric work models. This event aligns with the UN Sustainable Development Goal 9 (Industry, Innovation, and Infrastructure) by promoting innovation in intelligent systems that support sustainable and informed growth. Faculty Coordinators: Dr. Basavaraj N. Hiremath (IEEE Computer Society Faculty Advisor), Dr. Savitha Hiremath (IEEE CS Member)



## “Healthy Beginnings, Hopeful Futures” - World Health Day 2025

In celebration of World Health Day 2025, the Department of Computer Science and Engineering organized an impactful session titled “Healthy Beginnings, Hopeful Futures” on April 7, 2025. The event featured Dr. Raghu R V, Assistant Professor of Internal Medicine at CDSIMER, as the keynote speaker. He delivered an insightful talk on maintaining physical and mental well-being, especially during the summer months. Emphasizing hydration, balanced nutrition, adequate sleep, and mental health, Dr. Raghu guided students through practical steps for building healthier lifestyles. The interactive session saw enthusiastic participation, fostering open dialogue and awareness. By aligning with the United Nations Sustainable Development Goal 3 (Good Health and Well-being), the session empowered students with knowledge to build long-term wellness habits. Faculty coordinators Dr. Basavaraj N. Hiremath and Dr. Savitha Hiremath facilitated the successful organization of this meaningful event.



## Department Of CSE (Data Science)

### "Awareness Program on World Health Day"

The DataScience@DSU Club, Department of CSE (Data Science), organized a community-focused Awareness Program on World Health Day on 7th April 2025 at T. Hosahalli, Kanakapura Road. The event, held from 10:00 AM to 02:00 PM, was led by Dr. Shaila S G, Dr. Santhosh Kumar G, Dr. U. Pavan Kumar, and Prof. Shivamma D, with support from Dr. K.S. Bhagyajyothi, Asst. Director of Physical Education, DSU. The program aimed to educate local residents, school students, and office workers about vital health topics, including preventive care, healthy lifestyle habits, and universal healthcare access. Through expert talks, interactive sessions, and free health check-ups, the initiative successfully raised awareness and received positive feedback from attendees, inspiring many to adopt healthier routines and prioritize regular medical check-ups.



# "Awareness Program on Water Conservation"

On 8th April 2025, the DataScience@DSU Club, Department of CSE (Data Science), conducted an impactful Awareness Program on Water Conservation at T. Hosahalli, Kanakapura Road. Organized by Dr. Shaila S G, Dr. Santhosh Kumar G, Dr. U. Pavan Kumar, and Prof. Shivamma D, with the support of Dr. K.S. Bhagyajyothi, the program aimed to educate the community about the urgent need to conserve water amidst growing global scarcity. The event featured expert-led presentations, hands-on workshops on rainwater harvesting and water-efficient habits, and distribution of educational materials. Targeting residents, students, and local leaders, the program successfully raised awareness about sustainable water usage and inspired participants to incorporate water-saving practices into their daily lives.



## "NEXTGEN ORACLE - R&D CONNECT"

The Department of Computer Science and Engineering (Data Science) at DSU successfully hosted TechTalk: NextGen Oracle – R&D Connect on 9th April 2025 at LH2, A-Block, School of Engineering. With over 150 enthusiastic participants, the event offered a deep dive into Oracle's pioneering advancements in AI, cloud computing, and data science. Esteemed speakers Ashutosh Naik, Director of Software Development, and N. Naveen Kumar, Senior MTS at Oracle R&D, delivered engaging sessions that provided students and faculty with valuable industry insights and real-world case studies. Organized by Prof. Manjula M, Prof. Sindhu A, Dr. Suresh Arumugam, and Prof. Godhandaraman T, the interactive event fostered meaningful dialogue between academia and industry, empowering participants to explore innovative research paths and better understand the evolving tech landscape.



## Department Of CSE (AIML)

Robo-Quiz was a two-stage technical competition organized by the IEEE Robotics and Automation Society in collaboration with the IEEE Computational Intelligence Society at Dayananda Sagar University, Bangalore on 7/4/2025. The event aimed to foster interdisciplinary learning in robotics, AI, and automation while encouraging teamwork and innovation. It featured a Quiz Round with MCQs and short-answer questions covering robotics fundamentals, automation, and computational intelligence, with 43 teams participating. Shortlisted teams advanced to the Ideathon Round, where they proposed creative solutions to real-world robotics challenges. Judging focused on creativity, feasibility, and technical depth. The event was marked by high enthusiasm and strong collaboration between IEEE RAS and CIS. Participants appreciated the challenging quiz and the open-ended nature of the ideathon, also suggesting the inclusion of hands-on workshops in future editions. Robo-Quiz successfully blended theoretical knowledge with practical innovation, showcasing the potential of young minds in solving real-world problems through robotics and automation.



# Department Of Electronics and Communication Engineering

The Department of Electronics and Communication Engineering at Dayananda Sagar University organized a five-day hands-on workshop titled “VLSI Design Flow – Analog, Digital, Testing and Verification Essentials using Cadence” from April 7–12, 2025. Held at the VLSI Lab, School of Engineering, the workshop saw active participation from 60 sixth-semester ECE students. The event featured expert sessions by Dr. C. P. Ravikumar, Former Director of Talent Development at Texas Instruments, and Dr. Gayathri K M, Associate Professor at DSU, covering key topics such as Verilog and System Verilog, digital and analog design flows, fault modeling, and testing strategies. Students gained valuable hands-on experience with Cadence tools like Virtuoso and Modus, bridging theoretical concepts with practical application. Coordinated by Dr. Arun Balodi and Dr. Gayathri K M, the initiative underscored DSU’s dedication to fostering industry-relevant skills in the field of VLSI and semiconductor design.

**DAYANANDA SAGAR UNIVERSITY**  
VLSI DESIGN FLOW  
ANALOG, DIGITAL, TESTING AND VERIFICATION ESSENTIALS USING CADENCE  
07-12 APRIL 2025  
Organized By: Department of Electronics and Communication Engineering

**ABOUT ECE**  
The Department of Electronics and Communication Engineering at Dayananda Sagar University is a leading institution in the field of electronics and communication engineering. It offers a wide range of undergraduate and postgraduate programs, including B.Tech. in Electronics and Communication Engineering, M.Tech. in VLSI Design, and Ph.D. in Electronics and Communication Engineering. The department is equipped with state-of-the-art laboratories and facilities, providing students with a practical and hands-on learning experience.

**ABOUT THE SPEAKER**  
Dr. C. P. Ravikumar, Former Director of Talent Development at Texas Instruments, and Dr. Gayathri K M, Associate Professor at DSU, are the guest speakers for this workshop. They will share their extensive industry and academic experience, providing valuable insights into the latest trends and challenges in VLSI design.

**ABOUT THE WORKSHOP**  
This five-day workshop is designed to provide students with a comprehensive understanding of the VLSI design flow, from system-level requirements to physical implementation. The workshop covers key topics such as Verilog and System Verilog, digital and analog design flows, fault modeling, and testing strategies. Students will gain hands-on experience with Cadence tools like Virtuoso and Modus, bridging theoretical concepts with practical application.

**IMPORTANCE OF WORKSHOP**  
This workshop is a unique opportunity for students to learn from industry experts and gain practical experience with the latest VLSI design tools and techniques. It will help students develop the skills and knowledge needed to succeed in the semiconductor industry.

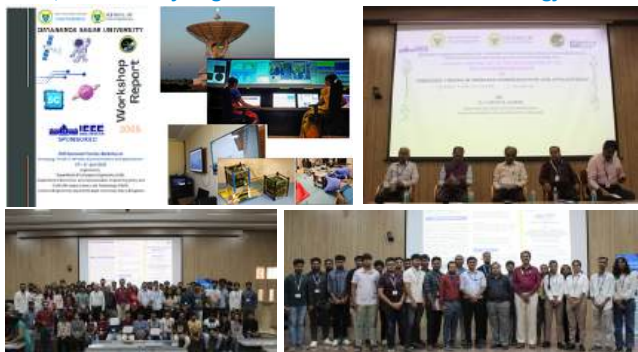
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## “Emerging Trends in Wireless Communication and Applications”

The Department of Aerospace Engineering, in collaboration with the Department of Electronics and Communication Engineering and the Centre for Space Science and Technology (CSST), Dayananda Sagar University, organized a five-day IEEE-sponsored workshop titled “Emerging Trends in Wireless Communication and Applications” from April 7–12, 2025. The event, held at the School of Engineering, brought together over 100 enthusiastic participants from DSU, DSATM, DSCE, and various industry sectors. The workshop featured a dynamic blend of expert lectures, hands-on technical sessions, and an exclusive field visit to prominent space and research facilities including ISRO’s ISTRAC and URSC.

Renowned speakers from premier organizations such as DRDO, ISRO, URSC, and leading academic institutions shared insights on next-generation wireless technologies, satellite communication, 5G systems, cyber-physical systems, and aerospace communication applications. The sessions were curated to bridge the gap between theoretical foundations and industry practices, equipping participants with the latest tools and trends in wireless communication. This impactful initiative was made possible by the committed efforts of the organizing committee and the support of DSU leadership. It stands as a testament to the university’s dedication to fostering innovation, research, and industry-aligned education in frontier technology domains.



# Department Of Computer Science and Technology

## “Entangled Intelligence: Innovations in Quantum Computing for the Next Tech Era”

The expert talk on "Entangled Intelligence: Innovations in Quantum Computing for the Next Tech Era" was organized by department of Computer Science & Technology for School of Engineering on 11th April 2025 from 11AM to 1PM. The session was led by Ms. Smruthi Jain, Technical Program Manager at Google, who shared valuable insights into the emerging field of quantum computing and its transformative potential. A total of 104 participants from the School of Engineering attended the session, engaging in thought-provoking discussions and gaining exposure to the latest advancements in the domain.



# Student Activities

Mr. Devesh Mamadapur (ENG22CS0538), Mr. Bilal Ahmed (ENG22CS0032), Mr. Punit Kumar (ENG22CS0126) and Mr. Adrian Ronan Das (ENG22CS0229), 6th Semester, Department of CSE as a team of “CRYPTO BULLS” has achieved the First Runners-Up position at the Colossus 2.0 – 24-hour National Level Hackathon, hosted by Dr. B.R. Ambedkar Institute of Technology, Bangalore on 11th and 12th April 2025. In recognition of their innovative ideas and relentless effort, the team was awarded a cash prize of ₹20,000.



Mr. Aryan Penukonda (ENG22CS0024), Mr Pramod Gurunath Chitrapur (ENG22CS0122) and Mr. M Naveen (ENG22CS0095)" 6th Semester, Department of CSE as a team “SPAN” on the achievement of Best Business Model at the Colossus 2.0 – 24-hour National Level Hackathon, hosted by Dr. B.R. Ambedkar Institute of Technology, Bangalore on 11th and 12th April 2025. The team has been awarded a cash prize of ₹8,000 for their innovative approach.



A team of fourth-semester students from the Department of Computer Science and Engineering, School of Engineering, Dayananda Sagar University, demonstrated remarkable innovation at Xyntra'25—a 36-hour inter-college hackathon held on April 12–13, 2025, at Rajalakshmi Engineering College, Chennai. Competing under the team name "Tech Tribes", the students—Mr. Sidmal Madhan (ENG23CS0189), Ms. Z Barkath Nisha (ENG23CS0235), Ms. Divya S (ENG23CS0303), Ms. Roopa Nagaraj Doddamani (ENG23CS0166), and Ms. Maski Sneha (ENG23CS0109)—developed an AI-powered Sign Language Translator to aid communication for individuals who rely on sign language. Their project stood out among numerous entries and was recognized as one of the top six best ideas of the hackathon, showcasing their creativity, technical expertise, and dedication to inclusive technology solutions.



Ms. Kalvapalli Keerthi (ENG21CS0176), Ms. Harshitha S (ENG21CS0155 ), Ms. Madineni Likitha (ENG21CS0212 ) and Mr. V Bharath Reddy (ENG22CS1042) 8th semester Students, Department of CSE presented a paper titled “Smart Monitoring of Human and Animal Detection using yolo”, under the guidance of Dr. George Fernandez I, Associate Professor, Department of CSE in the 5th International Conference on Internet of Things -ICIoT 2025, held at SRM Institute of Science and Technology, Kattankulathur, Tamil Nadu, during 2nd to 4th April 2025.





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