



DAYANANDA SAGAR
UNIVERSITY



SCHOOL OF
ENGINEERING

SOE - "The Weekly Buzz"

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



Week#52 (23 to 28 Dec, 2024)

www.dsu.edu.in

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.

Departmental Activities

Department of Humanities

- On 24th December 2024, the Department of Mathematics at DSU celebrated National Mathematics Day and inaugurated the Brahmagupta Club in Lecture Theatre LT-011. The event featured an invited talk by Dr. L. Shangerganesh, Head of the Department of Mathematics, NIT Goa, titled “Mathematical Synergy: Harnessing Linear Algebra and Differential Equations to Decode Disease Dynamics.” The session offered valuable insights into fundamental mathematical concepts and their applications, sparking active student participation. Other highlights included the announcement of winners for the “Test Your Mind (7-Day 7 Problem)” challenge by Dr. Atul Jakhar and engaging activities like a mathematics quiz, Sudoku puzzle, and abstract painting competition, with 163 students registering for the events. The program concluded with a valedictory address by Chairperson Dr. Mahalakshmi P, who expressed heartfelt gratitude to all participants and contributors.



- The Literary Society of the School of Engineering (SOE) organized a creative competition titled Keychain Chronicles on 26th December 2024, from 3:00 PM to 4:30 PM on the first floor, under the coordination of Dr. Rochna Roy and Dr. V. Sreemathy. The event saw enthusiastic participation from 56 students across all semesters. Participants were provided with wooden keychain blanks, charms, and painting supplies, and were tasked with painting designs and composing quotes inspired by their artwork. This thoughtfully designed activity aimed to bridge inspiration, alleviate stress, and enhance students' communication skills, particularly during the exam season. The competition proved to be a successful initiative, fostering creativity and offering a constructive outlet for students to express themselves while coping with academic pressure.



Department of CSE (Data Science)

- The DataScience@DSU Club, the Department of CSE (Data Science), and the IEEE Student Chapter-Information Theory Society jointly organized TECHSPARK MATLAB EXPO 2024 on 24th December 2024, from 10:00 AM to 03:00 PM in A410, SOE, DSU. The event was coordinated by Dr. Shaila S G, Professor and Chairperson (DS), along with Prof. Shivamma D and Prof. Monish L, both Assistant Professors in the Department of CSE (Data Science). With over 50 students registering and participating, the event aimed to inspire creativity and enhance productivity by showcasing MATLAB's applications in academia and industry. The resource persons for the event were Dr. Debanand Singdeo, Senior Engineer in the Education Team at MathWorks India Private Limited, and Mr. Rakshith B S, Senior Application Engineer for MathWorks products at CoreEL Technologies, Bengaluru. They officially inaugurated the MATLAB EXPO at DSU, marking the start of an engaging program. The event began with a warm welcome to the experts and addresses by dignitaries who motivated the participants. Students enthusiastically engaged in the learning sessions, exploring the innovative uses of MATLAB to solve real-world problems.
- The primary objectives of the MATLAB EXPO were to showcase innovative projects developed using MATLAB, promote knowledge sharing among students and professionals, encourage interdisciplinary collaboration in project development, and enhance participants' technical skills in programming, modeling, and simulation. The event successfully provided a platform for students to learn, collaborate, and develop future-ready solutions while fostering creativity and teamwork.



Department of AI and Robotics

- On December 26, 2024, the AVPL team, comprising Mr. Prashanth Sharma, Mr. Anmol, and Ms. Bharti Nehra, visited Dayananda Sagar University (DSU) to discuss the establishment of the Aero Vision Lab at the School of Engineering. The initiative aims to foster collaboration between AVPL International and DSU, aligning with AICTE's vision of enhancing technical education and industry-relevant training. The lab will equip students with advanced skills in drone technology, preparing them for careers in drone piloting, environmental monitoring, and other emerging fields. The meeting was attended by DSU leadership, including Vice Chancellor Dr. Amit Bhatt, Pro-Vice Chancellor Prof. R Janardhan, Dean SOE Dr. Udaya Kumar Reddy K R, and several senior faculty members. Discussions focused on the lab's infrastructure, curriculum, revenue-sharing model, and its potential impact on students' employability and technical education. The AVPL team also highlighted opportunities for hands-on training, internships, and collaboration with key stakeholders in the drone industry. This partnership is expected to bridge the gap between academia and industry while promoting innovation and skill development in the rapidly growing drone ecosystem.



Department of Mechanical Engineering

On December 20, 2024, an insightful session on "Computational Fluid Dynamics (CFD) Approach for Convection Heat Transfer Problems" was delivered by Dr. Ningegowda B. M., Associate Professor in the Department of Mechanical Engineering, Dayananda Sagar College of Engineering. The session, held in Room A227 from 9:00 AM to 1:00 PM, was attended by 5th and 7th-semester Mechanical Engineering students. Organized by Dr. Vinayak B Hemadri and Dr. Manish Kumar Mishra, the talk covered the fundamentals of CFD, its applications, and essential topics such as numerical methods, the Finite Difference Method, and solving Navier-Stokes equations. Dr. Ningegowda also discussed practical approaches to convection heat transfer problems, providing a balance between theoretical knowledge and computational techniques. His ability to simplify complex concepts and relate them to real-world applications made the session engaging and impactful, earning high praise from both students and faculty.



Student Activities

Department of Computer Science & Engineering

- Students from Dayananda Sagar University achieved remarkable success by winning the National Level "I Love Hackathon", conducted by Blockon and Nuchain on 27-28 December 2024. The winning team, comprising Rahul Jadhvani (CSE), Ashwini Jadhav (CY), Sachin Baluragi (CY), and Sai Jadhav (CSE), secured a cash prize of \$300 USD for their outstanding performance. Congratulations to the team for this impressive achievement!





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