



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 & Engineering

- Dr George Fernandez I and Dr. Arunkumar Gopu, Associate Professors, Department of CSE are successfully served as a Session Chair for the IEEE 4th International Conference on Innovative Computing, Intelligent Communication and Smart Electrical Systems (ICESES -2024) on 12th & 13th December, 2024 at St. Joseph's Institute of Technology, OMR, Chennai, India.



- Prof. Sasikala, Assistant Professor, Department of CSE has successfully Presented a paper titled, "Predictive Modeling for Engineering Student Performance Forecasting and Course Correction," at TALE 2024 - IEEE Education Society's International Conference on Teaching, Assessment, and Learning for Engineering during 10th December 2024 and also attended the workshop titled "Design and Smartly Deploy Sustainability & Decarbonisation Features in Science, Engineering & Technology Education" in the conference on 12th December 2024 at Manipal Institute of Technology, Bengaluru.



- Dr. Naresh P, Assistant Professor, Department of CSE has successfully presented the paper titles “Self-Optimizing Distributed Cloud Computing with Dynamic Neural Resource Allocation and Fault-Tolerant multi-Agent systems” and “Utilizing Machine Learning for the Identification of Chronic Heart Failure (CHF) from Heart Pulsations“ in the 4th IEEE International Conference on Ubiquitous Computing and Intelligent Information Systems (ICUIS-2024) organized by Shree Venkateshwara Hi-Tech Engineering College, Gobichettipalayam, Erode, Tamil Nadu, India during 12-13 December 2024.



Department Of CSE (Data Science)

- Dr. Shaila S G, Professor & Chairperson, has successfully participated & completed AICTE Training And Learning (ATAL) Academy Faculty Development Program on Artificial Intelligence in Data Science Applications at MUFFAKHAM JAH COLLEGE OF ENGINEERING AND TECHNOLOGY from 13/12/2024 to 19/12/2024.



- Dr. Shaila S G, Professor & Chairperson, Published a book Interactive and Dynamic Dashboard: Design Principles at CRC Press Taylor & Francis Group.



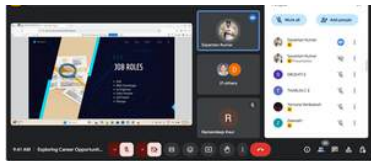
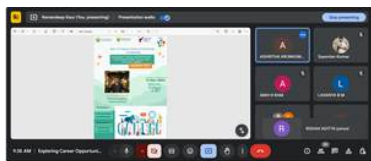
- Dr. Santhosh Kumar G, Associate Professor, Dr. U. Pavan Kumar, Assistant Professor and Prof. Godhandaraman T, Assistant Professor, attended One Week Online Faculty Development programme on Emerging Frontiers in AI: From Data Science to Generative AI and its Applications from 09.12.2024 to 13.12.2024 organized by Department of Computer Science and Engineering, Andhra Loyola Institute of Engineering and Technology-Vijayawada.



Departmental Activities

Department of Computer Science & Technology

- Alumni Talk: Exploring Career Opportunities, The Department of Computer Science & Technology successfully hosted an engaging alumni talk titled "Exploring Career Opportunities: Job Descriptions, Skills, and Industry Trends" on 14th December 2024. The event featured Mr. Sayantan Kumar, a Full Stack Engineer at Societe Generale, who provided in-depth insights into various job roles, essential skills and industry trends. He also offered personalized career counseling, helping students navigate their professional paths. The session highlighted emerging opportunities across industries and facilitated valuable networking opportunities for students. The talk was well-received, leaving attendees inspired and better prepared for their career journeys.



- Peer learning which is a powerful method for mutual growth and development, especially in educational was conducted with 5th Sem students of CST on 13/12/2024 at A325, which focused on leveraging group discussions and collaborative insights to build practical skills. This initiative targets students and young professionals looking to improve their problem-solving abilities, leadership skills, and teamwork through a structured peer-learning environment. Innovative peer-learning initiative, combines the joys of reading with skill enhancement. Through structured discussions and practical activities, participants gained valuable skills and forge meaningful connections. We invite stakeholders to support this initiative and help create a thriving learning community.



Department of Aerospace Engineering

- The Alatus Aerospace club organised a event titled “Make your own telescope” on 13th December 2024 at the Department of Aerospace Engineering at Dayananda Sagar University the students from I,II and III year actively participated and constructed there own telescope the main objective of this activity to build telescope and to perform stargazing activity.This activity was initiated by alatus aerospace club members and the faculty coordinator Prof Sripad and other faculties from the department



Department of AI & Robotics

- The Department of AI and Robotics hosted a Parent-Teacher Meeting on December 14, 2024, to strengthen collaboration among faculty, students, and parents. The event showcased the department's achievements, including groundbreaking research, innovative student projects, and industry collaborations, while highlighting its vision to excel in AI and Robotics education. Parents and students were warmly welcomed with tea and snacks, creating opportunities for informal discussions and networking. A detailed presentation by Dr. Rupam Bahaduri and Dr. Gangadhar outlined milestones such as AI-driven healthcare solutions and autonomous robotics systems, alongside remarkable student accomplishments. An open-floor discussion encouraged parents to share feedback and address queries on internships, placements, and holistic student growth, including mental health support. Faculty provided personalized feedback on academic performance, assuring transparency and commitment to student success. Concluding with a networking lunch, the meeting strengthened trust and collaboration, reaffirming the department's dedication to nurturing talent and addressing real-world challenges.



Department of CSE (AIML)

- The Department of Computer Science & Engineering (AI & ML) conducted an expert-talk on “Smart Choices: Essential Tips for Selecting Universities Worldwide for Higher Studies”, on 10th December, 2024, for 3rd semester students. Arham Asif Syed, an alumnus (2020-2024), Dept. of CSE(AI&ML) of Dayananda Sagar University and a current Master's student in Artificial Intelligence at the University of Technology Sydney, Australia, shares essential tips for selecting universities for higher studies.
- When choosing a study destination, the USA and Canada offer unique advantages. The USA is renowned for its world-class education, featuring top universities like MIT and Harvard, advanced curriculums, cutting-edge research, and excellent job prospects in industries like technology and healthcare. Scholarships and financial aid make it accessible for talented students. Canada, on the other hand, offers high-quality, affordable education at institutions like the University of Toronto and McGill. It provides clear pathways to post-graduation work and permanent residence (PR), affordable living costs, and universal healthcare. Both countries offer exceptional opportunities, but preferences depend on career goals and budget.



- The Department of Computer Science & Engineering (AI & ML) conducted an expert-talk on Smart Choices: Essential Tips for Selecting Universities Worldwide for Higher Studies, on 12th December, 2024, for 3rd semester students.
- Mr. Pramod Koushik T R, an alumnus (2020-2024) of CSE (AIML) and a Master's student in Data Science at SVNIT Surat, shared strategies to excel in the GATE exam and insights on career paths post-BTech. He highlighted opportunities in PSUs (e.g., Maharatna, Navratna), private sectors, and higher education options like MBA, MTech, or MS at reputed institutes. For GATE, he recommended focusing on CS and Mathematics (85 marks) and Aptitude (15 marks), using resources like textbooks, mock tests, and materials from experts. He emphasized the benefits of these paths, including financial gains, learning, diverse exposure and the fulfillment of career aspirations.

DAYANANDA SAGAR UNIVERSITY
DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

"EFFECTIVE STRATEGIES TO EXCEL IN THE GATE EXAM FOR HIGHER EDUCATION"

Mr. Pramod Koushik T R
Alumnus (2020-2024) of CSE (AIML) and a Master's student in Data Science at SVNIT Surat

DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING
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Generation GREEN Campaign at DSU + AICTE+OPPO INDIA

- The Generation Green (Gen G) Campaign, an initiative by OPPO India in collaboration with AICTE and managed by 1M1B, was successfully organized on 10th December 2024 by Department of student affairs, Department of Computer Science and Engineering & Department of Artificial Intelligence & Robotics. The event featured a vibrant cultural segment with a flash mob, skit, and fashion show, followed by activities like a scavenger hunt, ideathon, and face painting. Distinguished guests, including Syed Khaja Mohiddin M.E - Senior Environmental Officer, KSPCB, and Ms. Anuka Kumar - Head of CSR, OPPO India, graced the inauguration. Esteemed speakers, including the Vice Chancellor and Associate Dean - Dr. Naveen Babu, emphasized the importance of sustainability and innovation.
- Post lunch, the event continued with a roundtable discussion where the dean sir, chairpersons of all departments and faculty members shared their ideas on sustainability. They engaged in collaborative discussions with Mr. Syed Khaja Mohiddin M.E. and Ms. Anuka Kumar. During the session, an MoU was signed to promote collaboration in research, organize awareness campaigns, and support initiatives for startups.
- Outcome of the event: The MoU between Oppo and 1M1B will enhance innovation and startup opportunities for DSU students. Additionally, the Government of Karnataka's commitment to support and fund projects from the School of Engineering will provide valuable resources for growth and research, fostering a thriving entrepreneurial ecosystem at DSU.



Student Activities

Department of Computer Science & Technology

- Mr. Ahmed Isa (ENG22CT0039), Ms. Nancy (ENG22CT0043) and Mr. Satyam (ENG23CT1002) participated in the TGS Profile.in Tire Summit 2024 and secured the 4th runner-up position.



Department of CSE (Data Science)

- Thejas Gowda T S for successfully completing the course Math & Optimizations: Introducing Sets & Set Operations on December 13, 2024 at Infosys Springboard.



Department of Computer Science & Engineering

- Mr. Sameer S Katte (ENG22CS0148), Mr. Saikumar V Jadhav (ENG22CS0145), Mr. Sriram Ravindra (ENG22CS0185), Mr. Sai Shravan V (ENG22CS0144) and Mrs. Samrthe (ENG22CY0022) 5th Semester CSE Students as team Participated and received runner ups by winning cash prize of 20K in the National Level HackElite '24 event conducted by JSS, Mysore during 14 th December 2024.



Seminar On Minor Degree

- A seminar was conducted on 13th December at 11:00 AM in LH1 for all second-year students across various branches to raise awareness about the Minor Degree program by the resource person Yogesh Bhat, Co-founder @Masai. The event highlighted the benefits and opportunities offered by pursuing a Minor Degree alongside their major. Experts provided insights into interdisciplinary learning and career advantages. Students were informed about eligibility criteria, application procedures, and available specializations. The interactive session included a Q&A segment to address student queries. Overall, the seminar aimed to encourage students to enhance their academic profiles through additional qualifications.



“AI and the Future of Human-Computer Interaction (HCI)”

- Under the Scholar in Residence Programme, Dr. Kenneth Arthur Rouse from LeTourneau University, USA, delivered an enriching lecture series at our university from December 9 to 14, 2024. Dr. Rouse commenced his stay with a warm meet-and-greet session, followed by a keen observation of our lecture halls and interactions with faculty. Over the course of the week, he delivered engaging lectures on diverse topics such as Red Black Trees, Artificial Intelligence (AI), and Human-Computer Interaction (HCI), tailored to meet the needs of different academic levels.
- The session on Red Black Trees was particularly well-received by students in the 3rd semester, where Dr. Rouse provided an in-depth exploration of this fundamental data structure. For senior students in the 5th semester, he conducted interactive sessions on AI and HCI, offering insights into the future of these transformative fields.
- In addition, Dr. Rouse hosted a special guest lecture exclusively for faculty and advanced students, where he discussed cutting-edge developments in HCI and its interdisciplinary applications. His presentations sparked meaningful discussions and inspired future research collaborations.



Smart India Hackathon 2024

Triumphant Win at Smart India Hackathon 2024

- The students of team “Shamsheer” from Dayananda Sagar University have brought immense pride by emerging as winners of the prestigious Smart India Hackathon 2024 Grand Finale on 11th and 12th December 2024 at Sri Krishna College of Engineering and Technology , Coimbatore.
- Faculty Mentor: Dr. Bipin Kumar Rai, Professor (CSE)
Rohan Jaiswal (Team Lead) [5 th Sem-CSE]
Ritvik Vasundh [5 th Sem-CSE(AI/ML)]
Utkarsh Priye [5 th Sem-CSE]
Rashi Badiya [5 th Sem-CSE]
Chinmayi Palled [5 th Sem-CSE]
Jiya Patel [5 th Sem-CSE],
Industry mentor: Tarun Agarwal
- Team “Shamsheer” recieved 1 LAKH Cash Prize from AICTE,Ministry of Education. This 36-hour non-stop hackathon tested the creativity, technical expertise, and perseverance of participants from across the country. Competing with some of the nation’s best talent, the team delivered an innovative and impactful solution for problem statement SIH1626, aimed at transforming healthcare data management and information management operations. Team gave solution framework to the Government of National Capital Territory of Delhi in the area of Health Data Information & Management System Mobile Application (HDIMS)





- From the School of Engineering, two teams were selected in the Grand finale of SIH2024. other teams: Team name Zephyr 1: Mr. Nikhil Kumar (Team Leader), Mr. Janardhan KS, Mr. Sujeeth Kumar DS, Mr. Om Singh, Ms. Jyoti Shree S Gotti, Mr. Krishna Idnani, Mentor: Prof. Manjula M and Prof. Monish L, Assistant Professor, Department of Computer Science and Engineering (Data Science). SPoC: Dr Basavaraj N Hiremath, Professor, Department of Computer Science and Engineering.



Department of Aerospace Engineering

- The III year students Pragathi (ENG23AS0031), Prananya (ENG23AS0011), Ridim Jain (ENG21AS0014) from the Department of Aerospace Engineering, SOE at DSU actively participated in TIE global Submit at Bangalore from Dec 9th -11th - 2024 presented there innovative ideas in this event.



- On 14th December the final year students from the department of Aerospace Engineering at DSU Panani Purushotam Pandey (ENG21AS0030), Amshu Arun (ENG21AS0008) presented a paper on An Improved Nonlinear Damping Model for Supersonic Air-Intake Buzz and Control Using Surrogate-Model Concept at 10th Symposium on Applied Aerodynamics & Design of Aerospace Vehicles (SAROD 24) under the guidance of Dr Suryanarayana GK Professor Department of Aerospace Engineering DSU.





**SCHOOL OF
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