



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. Naresh P, Assistant Professor, Department of CSE has successfully completed free online course on “Python Fundamentals for Beginners” in December 2024 provided by Great Learning Academy.



- Dr. Naresh P, Assistant Professor, Department of CSE has successfully Published a Book titled, “Blockchain Essentials: From Cryptocurrencies to Smart Contracts”, as a Co-Author during 2nd December 2024 and the publisher is Amazon Kindle with the ISBN-13, 979-8346928232.



- Dr. Saravana Bavan, Associate Professor, Department of Mechanical Engineering, presented a paper titled Tensile and Hardness Behaviour of Friction Stir Cast Welds for Automotive Applications at the 7th Asian Symposium on Materials and Processing (ASMP 2024). The event was held from 5th to 7th December 2024 at IIT Madras, in collaboration with Nagaoka University of Technology, Japan.



Department Of CSE (Cyber Security)

- Dr.Mubeen Ahmed Khan, has actively participated in National Level Research Workshop(online) on "Strategies to publish research articles in reputed journals" on 04.12.2024 organized by PROGREZZ ACADEMY(Training and Research Institute),Tiruppur,Tamil Nadu.



- Dr.Durbadal Chattaraj, has actively participated in the hybrid seminar on "Transaction-Level Verilog and its Ecosystem" by Steeve Hoover organized by IEEE-IISc VLSI Chapter on 03.12.2024.



- Dr.Dilipkumar Jang Bahadur Saini, has published a paper titled" Innovative real Estate Management System:Artificial Intelligence-based Segregation" in 5th International conference on Smart Electronics and communication(ICOSEC), 2024. DOI: 10.1109/ICOSEC61587.2024.10722189



Department Of CSE (Data Science)

- Dr. U. Pavan Kumar has successfully presented the paper titled "Dynamic Mobility-Based Effective Load Balancing and QoS-Aware Network Selection in UAV Networks" at the 2024 Asian Conference on Communication and Networks (ASIANComNet), Bangkok, Thailand. This conference is recognized under IEEE Conference ID 63184.
- Dr. U. Pavan Kumar has successfully presented the paper titled "Detection and Identification of Vehicles SVM Method in Limited Surroundings" International Journal of Innovative Research in Science, Engineering and Technology (IJIRSET), Vol.13 Issue 11, November 2024.



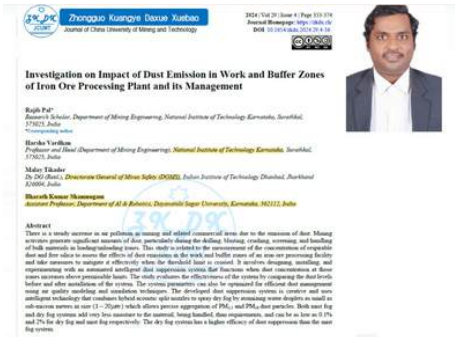
Department Of CSE (AIML)

- Dr. Lakshmanan M, Assistant Professor at Dayananda Sagar University, successfully participated in the AICTE Training and Learning (ATAL) Academy Faculty Development Program on Exploring Emerging Technologies in Next-Gen Communication Networks. The FDP was conducted at R.L. Jalappa Institute of Technology from 25th to 30th November 2024.



Department Of AI and Robotics

- Dr. Bharath Kumar S from the Department of AI and Robotics Engineering has Published Q1 paper on the Intelligent Dust Suppression System for Dust Control in Mining Plant in the Journal of China University of Mining and Technology . The research work was a collaborative work with Prof. Harsha Vardhan , (Head, Department of Mining Engineering , National Institute of Technology Karnataka, Surathkal), Mr. Rajib Pal (Director General of Mines Safety , Ministry of Labour) and Mr. Malay Tikader (Ex Deputy Director, Directorate General of Mines Safety)



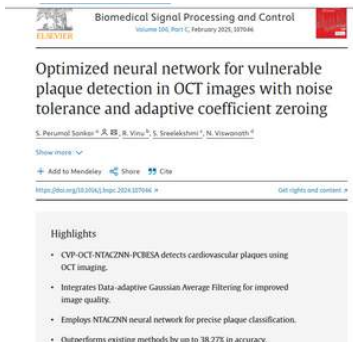
Department Of Computer Science and Technology

- Dr. Santosh Kumar J participated 5-day webinar titled "Beginner Workshop on KNIME" conducted by Webinar Park on December 2-6, 2024.



Department Of Electronics and Communication Engineering

- We are delighted to announce that Dr. Vinu R has recently published a significant research paper titled: “Optimized neural network for vulnerable plaque detection in OCT images with noise tolerance and adaptive coefficient zeroing” The paper, published in the esteemed journal Elsevier: Biomedical Signal Processing and Control (Volume 100, Part C, 2025), focuses on enhancing diagnostic accuracy in Optical Coherence Tomography (OCT) imaging through an optimized neural network model. The study addresses challenges like noise tolerance and introduces innovative techniques for adaptive coefficient zeroing.
- This impactful research highlights Dr. Vinu R's dedication to advancing biomedical imaging technologies. Congratulations on this outstanding achievement.



Departmental Activities

Department of CSE (Data Science)

- Value-Added Course on AI and ML in Nursing & Healthcare, 26th October 2024 – 27th November 2024, 6:00 PM – 7:00 PM, Hybrid, The Department of CSE (Data Science), in collaboration with the School of Nursing, conducted a 30-hour hands-on training program on Artificial Intelligence (AI) and Machine Learning (ML) in Nursing and Healthcare.
- Resource Persons: Dr. Shaila SG and Prof. Sindhu A (Dept. of CSE - Data Science), Dr. Jamuna P (School of Nursing - Coordinator), Introduction to AI and ML, Applications of AI and ML in Nursing & Healthcare, Types of Machine Learning and Neural Networks, IoT and its role in Healthcare, Data Analytics and Healthcare Data Analysis, Case Studies and Future Trends.
- Learning Outcomes: Understanding AI and ML applications in healthcare, Designing and implementing ML models for medical use cases, Managing and analyzing healthcare datasets and Gaining insights into IoT for remote patient monitoring.
- This training empowered participants with the skills to leverage AI and ML technologies in healthcare, preparing them for innovation and transformation in the industry.



Department of Computer Science & Technology

- The Department of Computer Science and Technology at Dayananda Sagar University has proudly registered as a member of the Federation of Karnataka Chambers of Commerce & Industry (FKCCI). This prestigious affiliation marks a significant milestone in fostering industry collaborations and strengthening our commitment to academic and professional excellence.

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Issued Membership Subscription for the Year 2024-2025	
Description of Service	
Membership Subscription Fee	5,000.00
Admission Fee	1,000.00
HSN CODE 999999 Interest Amount	0.00
Total Taxable Value	6,000.00
IGST @18%	0.00
CGST @9%	540.00
CGST @9%	540.00
MISC Amount	0.00
	By Cheque (Bank No. 000108 Date 19-10-2024) HDFC Bank
Rs. 7,080.00	Tax Payable on Reverse Charge: No
a Sum of Rupees: seven thousand, eighty Only	
Remarks:	
*Cheque Subject to Realisation	
	Authorized Signatory

Department Of AI and Robotics

- Dayananda Sagar University (DSU) has been awarded an AICTE grant of INR 50 Lakhs to establish the Aero Vision Drone Lab in collaboration with AVPL International. This state-of-the-art facility, led by Dr. Pramod Kumar Naik and a team of co-investigators, aims to advance education and research in drone technology and AI integration.
- The lab will offer training in drone piloting, manufacturing, maintenance, and AI-driven applications such as agriculture, disaster management, and industrial automation. Designed to foster innovation, the initiative includes comprehensive infrastructure, skill development programs, and industry collaborations to prepare students for emerging technologies.
- This project represents a significant milestone for DSU in enhancing employability and promoting interdisciplinary research, empowering students and professionals in the fields of AI robotics and drone technology.

Student Activities

Department of Mechanical Engineering

- 5th-semester BTech Mechanical Engineering students, D Gagan Rakshith and Atharva Amit Deshmukh, secured the 1st prize in the Design Hackathon at MechTech-2024, held on December 9-10, 2024, at Sri Sairam College of Engineering, Bengaluru.
- The team demonstrated exceptional design and problem-solving skills using 3D modelling software, showcasing creativity and technical expertise. Their achievement highlights the innovative spirit and practical learning environment fostered at DSU. Congratulations to the winners!



Department of Computer Science & Technology

- Ms. Niharika R (ENG21CT0028) of 7th semester CST got selected in ZScalar Campus Placement Drive organized by Department of Training and Placement on 03rd December 2024.

Department of Aerospace Engineering

- Maruthi Reedy (ENG21AS0023) and Amshu Arun (ENG21AS0008) actively participated in webinar titled eVTOL Mobility & The Digital Era: Are You Ready for Liftoff Organised by Dassault Systemes 3D Excite on 4th December 2024 the Students got to know how digital tools are transforming the future of air mobility.
- The final year students from Department of Aerospace Engineering K Raghav (ENG21AS0016), Yashas V (ENG21AS0051), Dayananda Sagar University participated and presented a conference paper titled “Air Quality Testing and Validation Using Drone Technology” and “Design, Integration, and Simulation of a Model Rocket System for CanSat Deployment” at International Conference on Advances in Aerospace Technologies at SRM institute of science and technology on 4th and 5th December 2024 under the guidance of Prof Sripad Kulkarni S.



Department of CSE (Data Science)

- S Nandini (ENG21DS0034) got admission into Master of Science (Data and Computational Science) at University College Dublin, Ireland.
- Pranjal Mewara (ENG21DS0026) got an offer in Amazon as Business Intel Eng-Intern with stipend 70,000 Rs per month .
- Nithin Prajwal (ENG22DS0039) who has been officially selected as the STUDENT LEAD of GOOGLE Developer Groups.



**SCHOOL OF
ENGINEERING**

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