



DAYANANDA SAGAR
UNIVERSITY



SCHOOL OF
ENGINEERING

SOE - "The Weekly Buzz"

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



Week#6 (Feb 03 to 08,2025)

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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 Mechanical Engineering

- Dr. Ravitej, Asst. Professor has presented two research articles in an international national conference held in NITTE, karkala. Proceedings of the conference will be published in the Scopus indexed book series by Springer.



- Prof. Abhijith N Gowda, Assistant professor, Department of Mechanical Engineering, DSU-SoE, presented a paper titled “Self- rejuvenation potential of river: A case study” in sixth international multi conference on Emerging Trends in Engineering (ICETE 2025) organized at NMAM Institute of technology, Nitte- Karkala, Karnataka. This paper highlighted the rejuvenation potential of Vrishabhavathi and Arkavathi rivers in Kaveri basin where the river’s characteristics were studied at 8 points in and around Bengaluru district and Bengaluru rural.



- Department of Mechanical Engineering, SoE organized a One Week Faculty Development Program on "Recent Technologies and Innovation in Mechanical Engineering (RTIME)" 3-9 Feb 2025, in collaboration with KK University Nalanda. Dr. P M G Bashir Asdaqe was coordinator from SOE-DSU.



Department Of CSE (AIML)

- We offer our sincere congratulations to Prof. Subhash Mondal for this extraordinary accomplishment and commend his commitment to impactful research. Q1 paper in Nature Publishing's, Scientific Reports. The journal is indexed in the Web of Science (WoS) and has a high Impact Factor, making it the world's 5th most cited Journal. This is another milestone in our university's expanding research excellence.

Title: "An efficient artificial neural network-based optimization techniques for the early prediction of coronary heart disease: comprehensive analysis" Journal: Scientific Reports, publisher: Nature Publishing, Indexing: SCIE, SCOPUS, Impact Factor: 3.8, Quartile: Q1, Publication Date: 09.02.2025.

<https://www.nature.com/articles/s41598-025-85765-x>

[nature](#) > [scientific reports](#) > [articles](#) > [article](#)

Article | [Open access](#) | Published: 09 February 2025

An efficient artificial neural network-based optimization techniques for the early prediction of coronary heart disease: comprehensive analysis

Subhash Mondal, Barjan Maity & Amitava Nag 

[Scientific Reports](#) **15**, Article number: 4827 (2025) | [Cite this article](#)

590 Accesses | 2 Altmetric | [Metrics](#)

Department Of Computer Science & Technology

Dr. Santhosh Kumar J, Associate Professor visited ATME College of Engineering as a resource person to deliver a topic “Building Advanced DL Architecture” on February 04, 2025.



Department Of CSE(Cyber Security)

Dr. Dilip Kumar Jang Bahadur Saini has been honoured as the Session Chair at the International Conference on Futuristic Aspects in Science & Engineering (ICFAISE-2025) on 07th February 2025 (Virtual Mode) started at 10:00 AM from ICFAI University, Jaipur. The conference is proudly partnered with PeerJ Computer Science as the official publication partner.

ICFAI
INTERNATIONAL CONFERENCE ON FUTURISTIC ASPECTS IN SCIENCE & ENGINEERING (ICFAISE-2025)
Session chair
Dr. DILIP KUMAR JANG BAHADUR SAINI
Associate Professor,
Dayananda Sagar University
on 07th February, 2025
10:00 AM (GMT+5:30)
Virtual Mode
Publication Partner: **PeerJ** Know More

06th - 07th February
(Thursday & Friday)
The ICFAI University, Jaipur

Dr. Mubeen Ahmed Khan has been honored with the Best Paper Award at the IEEE International Conference on Computational, Communication, and Information Technology (ICCCIT-2025), held on 7th-8th February 2025, Organized by the Department of Computer Science & Engineering, IPS Academy Institute of Engineering & Science, Indore. His research paper, titled "A Contest for Human Behaviour Recognition Using Facial Expression," was recognized for its outstanding contribution to the field. This prestigious event brought together leading researchers and professionals to discuss advancements in computational and communication technologies.



Dr. Mubeen Ahmed Khan has successfully completed a one-week online Faculty Development Program (FDP) on the topic "Securing the Wireless Horizon: Emerging Challenges and Solutions in Wireless Communication" (SEWC-2025), held from 3rd to 8th February, 2025, was organized by Anant Gyan Knowledge and Skills Private Limited and focused on cutting-edge challenges and solutions in wireless communication security.



Departmental Activities

Department Of Computer Science and Engineering

- The Department of Computer Science and Engineering (CSE) successfully conducted a Value Added Course on WEB 3.0 from 3rd to 7th February 2025 in online mode. The course, coordinated by Dr. T. Gayathri, featured expert resource persons Dr. A. Senthil Kumar and Dr. Bipin Kumar Rai and was attended by 160 participants. This 30-hour program provided a comprehensive understanding of Web 3.0 technologies, covering topics such as Blockchain, Decentralized Finance (DeFi), Non-Fungible Tokens (NFTs), Metaverse, Decentralized Autonomous Organizations (DAOs) and hands-on experience with Web 3.0 tools like Meta Mask and Trust Wallet.

The participants appreciated the interactive sessions and practical exercises, gaining valuable insights into career opportunities in blockchain development, DeFi and Web 3.0 applications. The positive feedback highlighted the clarity of instruction and well-structured content.

The event concluded on a high note, marking another successful initiative by the Department of CSE in equipping students with emerging technological skills.



Value Added Course on AWS Certification Simplified: Cloud Practitioner Essentials (4th - 8th February 2025) The Department of Computer Science and Engineering (CSE) successfully conducted a Value Added Course on "AWS Certification Simplified: Cloud Practitioner Essentials" from 4th to 8th February 2025 in online mode. The course was coordinated by Prof. Muthu Bala N and led by Dr. S. Gokulakrishnan, Assistant Professor. A total of 200 participants attended this 30-hour program, which provided an in-depth understanding of Amazon Web Services (AWS) and its applications.

The course was structured into five modules, covering:

- ✓ Introduction to Cloud Computing and AWS
- ✓ AWS Core Services – Compute, Storage, Databases, and Networking
- ✓ Security, Compliance, and Identity Management
- ✓ AWS Pricing, Billing, and Cost Management
- ✓ Exam Preparation and Real-World Applications

The sessions included interactive presentations, case studies, and hands-on exercises, allowing participants to apply their learning in real time. The workshop aimed to equip students with the knowledge and skills necessary to pursue AWS certification and explore career opportunities in cloud computing. The positive feedback from participants highlighted the clarity of instruction, structured content, and practical learning experience. Volunteers Krishna Rajesh and Sangamesh played a crucial role in ensuring the smooth execution of the sessions.

This successful initiative by the Department of CSE provided a valuable learning experience, preparing students for AWS certifications and industry challenges in cloud computing.



Faculty Development Program on Embedded System Design using ARM Cortex

The Department of Computer Science and Engineering at Dayananda Sagar University, School of Engineering, successfully organized a Faculty Development Program (FDP) on Embedded System Design using ARM Cortex from 3rd to 7th February 2025. The program saw active participation from 55 faculty members, 8 students, and 2 faculty members from other departments. The FDP covered key aspects of embedded systems, including hardware-software integration, real-time operating systems (RTOS), communication interfaces, and debugging tools. Hands-on sessions focused on Embedded C programming, sensor interfacing, and industry applications in automotive, healthcare, and IoT.

Keynote Speaker: Mr. Sunil T Shambhatnavar, CEO, Advanced Electronic Systems & Solutions, Bangalore,

Resource Persons:

Dr. Ravichandra Kulkarni, Dean R&D, Maharaja Institute of Technology, Mysore

Dr. Sharada M Kori, Associate Professor, KLSGIT, Belagavi

Dr. Vijaylakshmi Jigajinni, Assistant Professor, ECE, BEC, Bagalkote

Mr. Arun Badiger, Embedded Software Engineer, Tessolve Semiconductor Pvt Ltd, Bangalore

Throughout the five days, participants gained in-depth knowledge of embedded architectures, memory systems, real-time scheduling, and debugging techniques. Hands-on training sessions enhanced their technical expertise and problem-solving skills, preparing them for advancements in embedded technology and industry applications. This FDP was an enriching experience, equipping participants with practical exposure and industry-relevant skills in embedded system design.



Department Of Aerospace Engineering

- The students from departments of Aerospace Engineering T Kartik (ENG21AS044) and Vivek Kulkarni (ENG21AS0050) have completed an online training course on Space Science and Technology awareness training (start) under ISRO START Programme organised by India Institute of Remote Sensing off Campus outreach certificate program ISRO Dehardun on Space Science and Technology awareness training (start) under ISRO START Programme. This online programme was conducted during January 09, 2025 to January 29, 2025. This Program was coordinated by Prof Sripad Kulkarni S Nodal coordinator, Dayananda Sagar University for this program.



Student Activities

- Prof. Sripad Kulkarni, Assistant Professor, from the Department of Aerospace Engineering, DSU, has been awarded a Certificate of Recognition for his exceptional guidance and mentorship. He played a pivotal role in mentoring students Revanth Prasad (ENG21AS0035), K Raghav (ENG21AS0016), Yashas V (ENG21AS0051), and Abhishek BN (ENG21AS0002) during the Phase-II Engineering Design Internship Program for the academic year 2024-25. The students successfully completed the course work on converting the 'Drone Winch Mechanism' to a 3D Digital Twin, a project supported by Dassault Systèmes La Foundation. In recognition of their efforts, both the students and faculty were awarded a stipend of Rs. 50,000/- under the Connect Next program.
- Dr. Avinash Kumar, Assistant Professor, department of Aerospace Engineering, DSU was awarded with certificate of recognition for guiding & certification of completion for mentoring students namely Deepashree K(ENG21AS0011), Deeksha R Sheety (ENG21AS0010),MG Sai lohith (ENG21AS0021) and Puttana Pujar(ENG21AS0033) for the successful completion of Phase-II Engineering DESIGN Internship Program for the year 2024-25 For the Coursework Converting 'Multi-Role Multi-Mission Drone' to 3D Digital Twin from Dassault Systemes La Foundation also the students and faculty were awarded with Rs 50,000/- as a stipend as a part of Connect next program.





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**Edited by :
Office of Dean SOE,
Dayananda Sagar University
Deverakaggalahalli, Kanakapura Road Ramanagara Dt.,
Karnataka - 562 112**