



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, Dr Arun Kumar Gopu, Associate Professors, and Dr T Poongodi, Professor, Department of CSE have published a journal research article titled "Conditional Random Field-Based Incremental Auto Scaling Algorithm to Enhance Workflow Scheduling in Cloud Computing", in IEEE Access. The journal has a high impact factor of 3.4. Indexed in web of Science with Q1 Journal, Volume: 12, On Page(s): 173914-173924. Digital Object Identifier:10.1109/ACCESS.2024.3502538
<https://ieeexplore.ieee.org/document/10757417>.



- Dr. Sivananda Reddy L, Associate Professor, Department of CSE, successfully Published a Book as a Co-author with the title - "Next Gen AI and Machine Learning - Innovations for the Future" with ISBN-978-81-982371-1-8 and the publisher is Chendur Publishing house, Chennai during November 2024.



Department Of Electronics and Communications Engineering

- We are delighted to announce that Mr. Nadeem Pasha, Assistant Professor, Department of Electronics and Communication Engineering at the School of Engineering, Dayananda Sagar University, has successfully completed the AICTE Training and Learning (ATAL) Academy Faculty Development Program.
- The program, titled “Recent Trends in VLSI Design Using Nanotechnology”, was held at the Meerut Institute of Engineering and Technology from November 25 to November 30, 2024. This prestigious certification highlights Mr. Pasha's commitment to advancing his expertise in cutting-edge technologies in the fields of nanotechnology and VLSI design.



- We are pleased to announce that Dr. Owais Ahmad Shah, Assistant Professor, Department of Electronics and Communication Engineering, presented a research paper titled “Predictive Modeling of Compressive Strength in Coconut Shell-Embedded Concrete Using Ensemble Regression Models” at the 2nd IEEE International Conference on Integrated Intelligence and Communication Systems (ICIICS-2024). The conference was organized by Sharnbasva University, Kalaburagi, on November 22-23, 2024.



Department Of CSE (Data Science)

- Dr. U. Pavan Kumar has attended webinar for Faculty Development Program on Principles of Outcome Based Education Organized by vmedulife software on 26th November 2024



Department Of Aerospace Engineering

- Dr. G. K Suryanarayana , professor , Dept. of AEROSPACE , SOE-DSU was honored with an award for his participation in the National Kannada Science Conference 2024. The event was organized by the Kannada Cultural Association as part of its Golden Jubilee celebration in collaboration with CSIR-NAL. This award acknowledges his contributions and efforts in presenting innovative ideas in the conference.



Departmental Activities

Department Of CSE (Data Science)

- The Department of Data Science, SOE, DSU, conducted a 5-day value-added course from 25th to 29th November 2024, organized by Dr. Suresh Arumugam, Associate Professor. Targeted at 5th Semester students, this course provided in-depth knowledge and hands-on experience with Microsoft Azure tools and services for data engineering.
- Key Highlights:** Azure Fundamentals: Introduction to Azure services, architecture, and tools, Azure Data Storage: Working with SQL Databases, Blob Storage, and Cosmos DB, Data Integration: ETL workflows using Azure Data Factory. Analytics & AI: Unified data solutions with Synapse Analytics and Databricks. Real-Time Insights: Azure Stream Analytics for IoT and social media data. Security & Monitoring: Implementing Azure policies and performance tracking.
- Learning Outcomes:** Participants gained expertise in designing Azure-based data pipelines, analytics with Synapse and Power BI, and were equipped to attempt the Azure Data Engineer Associate Certification. This hands-on program bridged the gap between theory and practice, aligning students with industry standards and real-world applications.

DAYANANDA SAGAR UNIVERSITY
SCHOOL OF ENGINEERING
DEPARTMENT OF COMPUTER SCIENCE
ENGINEERING (DATA SCIENCE)

**HANDS-ON TRAINING: TO
BECOME A MICROSOFT
AZURE DATA ENGINEER
(DP-203)**

Microsoft Azure

Guest Sponsor:
Dr. Suresh Arumugam

25th Nov 2024
to 29th Nov 2024

9:30 am to 4:00 pm

A 100

Register Now



Department of Computer Science & Technology

- The Department of Computer Science and Technology, in collaboration with the School of Engineering (SOE), organized "TGS – Proofile.in Ideathon '24 Quarter Finals" for third and fifth-semester students of various branches on November 26th, 2024, in Lecture Hall 2. Dr. Udaya Kumar Reddy, Dean of the School of Engineering and Dr. Shahina Parveen, Chairperson of the Department of CS&T, welcomed Mr. Venkatesh SV (Founder and CEO of Proofile.in) and Ms. Sinchana D. Kousik. The esteemed jury for this event was Mr. Bhanu Prakash (Founder and CEO of Baala Veda and Flying Monkeys) and Dr. Bipin Kumar Rai (Professor, CSE Department, SOE). The Ideathon spanned the entire day, with teams presenting their ideas and receiving valuable feedback from the jury. Over 50 teams participated in the event.
- The shortlisted teams will be provided with a free pass to the TIE Global Summit 2024. The winning team will be presented with a cash prize of total worth 2 lakhs at the grand finale. Dr. Shahina Parveen, Chairperson of the Department of CS&T, concluded the event by expressing gratitude to the judges and organisers. She presented mementos as a token of appreciation.



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TE Global Summit ELE 2024

WE ARE INVITING YOU FOR

TGS-PROOFILE.IN IDEATHON '24

JOIN US AT THE QUARTERFINALS OF THE ONE MINUTE PITCH COMPETITION AND ENCOURAGE THE PARTICIPANTS

CHIEF GUESTS

Dr. Udaya Kumar Reddy,
Dean School of Engineering, DSU

Mr. Venkatesh S V
Founder and CEO at Proofile.in

Dr. M. Shahina Parveen,
Chairperson, CSE, SOE, DSU

JURY MEMBERS

Mr. Bhanu Prakash
Founder and CEO, Baala Veda and Flying Monkeys

Dr. Bipin Kumar Rai
Professor, CSE Department

26 NOVEMBER 2024

VENUE: LECTURE HALL, DSU CAMPUS, BENGALURU



Department of Computer Science & Engineering

- The Department of Computer Science & Engineering organized Session 2 of the Hands-on Workshop on "Data Analytics with RapidMiner for Real World Applications" on 21st November 2024 from 2:30 PM to 4:30 PM in Lecture Hall 4, A Block, School of Engineering, DSU.
- The workshop featured Mr. Abhishek Mattihalli (Data Scientist, Altair), Ms. Srushti B Yalgudri (Alumnus, Dept. of CSE & Data Scientist), and Mr. Deepak Bhadoria (Manager, Altair) as resource persons. Coordinated by Dr. Basavaraj N Hiremath, Dr. Savitha Hiremath, and Prof. Muthu Bala N, the session focused on practical learning through industry-standard tools.
- Key topics included: K-Nearest Neighbors (KNN) Algorithm: Practical implementation and decision boundary visualization using RapidMiner, Principal Component Analysis (PCA): Dimensionality reduction techniques with real-world applications, Decision Tree: Fundamentals and practical use cases in machine learning, Recommender Systems: Demonstrated by Ms. Srushti, including content-based and collaborative filtering, Image Identification in Videos: Hands-on session using RapidMiner.
- The workshop saw participation from 180 CSE students, receiving excellent feedback for its practical insights and interactive learning. The event concluded with a vote of thanks by Dr. Savitha Hiremath, acknowledging the contributions of resource persons and attendees.



- Parents – Teachers Meeting was conducted by Dept. of Computer Science and Technology for the parents of 3rd & 5th semester students on November 30th, 2024. The meeting began with a welcome address by the Chairman, followed by a highlighting the department's curriculum, department achievements, including academic results, workshops, and industry collaborations. Class advisor discussed students' academic performance, attendance, and the importance of skill development. The detailed insights into the academic performances of students, highlighting both strengths and areas needing improvement.
- Parents were provided with individualized reports and feedback on their wards academic standing and were encouraged to actively participate in their wards educational journey. The PTM also included discussions on the importance of extracurricular activities in holistic student development. Parents were informed about the various clubs, sports teams, and cultural activities available at the college, emphasizing the role of these activities in shaping an all-rounded individual.
- Dr. Girisha G S, Professor and Chairman, shared observations regarding students' behaviour, social interactions, and overall attitude in and outside the classroom. He gave a short introduction of department activities, College website, important web pages, Curriculum and the important links in the website. Also, explained about the curriculum design methodology and sought inputs from parents about the curriculum.



Department Of Electronics and Communications Engineering

- The Department of Electronics and Communication Engineering at Dayananda Sagar University successfully organized a hands-on workshop on “Analog Design Flow Using Cadence Tool Suite” on 30th November 2024 in the VLSI Lab, Room A308, School of Engineering. The workshop aimed to bridge the gap between theoretical concepts and practical implementation in Analog Design and Simulation, catering to 30 participants, including students, researchers, and faculty members specializing in the VLSI domain.
- Key sessions included: Introduction to Analog Design Flow, Schematic Entry and Simulation, Layout Design, Design Rule Checks (DRC) and Layout Versus Schematic (LVS),
- The sessions were led by expert resource persons, Dr. Vimala P and Dr. Madhura R, from Dayananda Sagar College of Engineering, who provided insightful guidance throughout the day-long event.
- The workshop successfully equipped participants with practical skills in Analog Circuit Design using industry-standard Cadence tools, fostering enhanced understanding and expertise in the field. Future workshops are planned to explore advanced topics in Electronic Design Automation.



Department Of Mechanical Engineering

- On 29th November 2024, students of 3rd Sem, Mechanical Engineering Department visited the Bosch Bidadi Plant from 9:00 AM to 2:00 PM. Our student, Mr. S Ananth played an active role of student coordinator. The day began with a warm welcome at the plant especially by Mr. S. Ravindran (Technical Functions - Facility Management, BidP1/FCM), who guided the visit thoroughly, followed by a comprehensive tour of the state-of-the-art manufacturing facility. During the visit, students observed Bosch's advanced production processes, including automated assembly lines, robotics, and precision testing of automotive components like fuel injectors and starters. They also learned about the company's cutting-edge R&D in automotive technology and sustainability initiatives, such as energy-saving measures and waste reduction practices. A session with Bosch engineers provided insights into the company's work culture, future innovations like AI and digital twins, and career opportunities. The visit was a valuable opportunity for students to apply theoretical knowledge to real-world industrial practices and gain exposure to the latest advancements in technology and manufacturing processes. This industrial visit was coordinated by Dr. P M G Bashir Asdaque and Dr. Manish Mishra.



- The Department of Mechanical Engineering organized Industry Visit to Fanuc India – Industrial Automation Company in Bommasandra on 27th November. 5th Sem Mechanical Engineering students have visited the company. The industry visit benefited students for a wider exposure to a variety of situations that challenge them to apply their theoretical knowledge in practical scenarios. This exposure is crucial in developing a range of skills – from technical know-how to critical thinking and problem-solving abilities.



Department Of Aerospace Engineering

- On 23rd November 2024, Dayananda Sagar University's Department of Aerospace Engineering held a Parent-Teacher Meeting for II, III, and IV-year students. The event aimed to facilitate communication between parents and faculty, providing updates on student progress, academic performance, and future career prospects. Faculty members discussed various aspects of student development, including academic achievements, areas of improvement and participation in extracurricular activities. Parents expressed their satisfaction with the department's efforts to support students' growth and development. The meeting fostered a collaborative approach between parents and educators to ensure students' success in their academic and professional journeys.





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