



DAYANANDA SAGAR  
UNIVERSITY



SCHOOL OF  
ENGINEERING

## SOE - "The Weekly Buzz"

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



Week#39 (Sep 23 to 28, 2024)

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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.



## Department of CSE (Cyber Security)

Dr.Dilipkumar J Sain has presented a paper titled “Novel Approach for Identification of Ayurveda Plant using New age Technology” at the International Conference on Artificial Intelligence and Networking (ICAIN-2024), jointly organized by Guru Tegh Bahadur Institute of Technology (GTBIT), GGSIPU, Delhi in association with the Portalegre Polytechnic University, Portugal, Europe, Institute of Technology and Business in České Budějovice, Czech Republic & Keshav Mahavidyalaya, University of Delhi on 24th to 25th September 2024.



Prof.Sharanabasappa Tadkal, has successfully completed Business Analyst Assessment, from Learn Tube by Career Ninja on 29th September 2024.



# Department of Aerospace Engineering

Prof Sripad Kulkarni From The Department Of Aerospace Engineering Was awarded with Certificate of Recognition For Guiding & Mentoring Students For the Successful Completion of Phase-I Engineering DESIGN Internship Program Y 2023-24, for the course work “Converting Drone Winch Mechanism To 3D Digital Twin From Dassault Systems La Foundation”.



Prof. Ramandeep Kaur, Assistant Professor published a research article titled “Lexi Genius: An Offline Summarization Brilliance” at the International Conference on Artificial Intelligence and Networking (ICAIN-2024), jointly organized by the Guru Tegh Bahadur Institute of Technology (GTBIT), GGSIPU, Delhi, in association with the Portalegre Polytechnic University, Portugal, the Institute of Technology and Business in České Budějovice, Czech Republic, and Keshav Mahavidyalaya, University of Delhi, from 24th to 25th September 2024.



# Department of Computer Science and Engineering (AI&ML)

- Prof. Sriramkumar R & Dr. Shreyas Rajendra Hole, Assistant Professor, Dept. of CSE (AI&ML) has awarded the NPTEL certificate for successfully completing the 8-week (Jul-Sep 2024) NPTEL course on Computer graphics.



- Dr. Vinutha N, Associate Professor, Dept. of CSE (AI&ML), delivered the talk (1 Day Workshop) at ST. Francis De Sales College on 25th Sep 2024. Title of the Topic: "Unraveling the AI Frontier: Deep Learning, Explainable AI, and the Emergence of Generative Models"



## Department of ECE

Dr Pushpa Mala S was invited as Resource Person for the IEEE NKCon 2024, the Flagship International conference of IEEE North Karnataka subsection, held in association with IEEE Bangalore Section at Bagalkot during 21st to 22nd September 2024.

A paper titled Exploring Memristor Integrated R-2R DAC: A study in Circuit Optimization and Performance was presented at the Flagship International conference of IEEE North Karnataka subsection, held in association with IEEE Bangalore Section at Bagalkot during 21st to 22nd September 2024. Authors/s and Affiliations: Adithya H K, Aishwarya Kulkarni, Archana B, Chandana K T, Pushpa Mala S, Department of Electronics and Communication Engineering, DSU.

A paper titled A Study on Circuit Optimization and Performance of Memristor-Integrated 3-bit Pipeline DAC was presented at the Flagship International conference of IEEE North Karnataka subsection, held in association with IEEE Bangalore Section at Bagalkot during 21st to 22nd September 2024. Authors/s and Affiliations: Adithya H K, Aishwarya Kulkarni, Archana B, Chandana K T, Pushpa Mala S, Department of Electronics and Communication Engineering, DSU.

Dr. Pushpa Mala S, who served as a reviewer for the International Conference on Vehicular Technology and Transportation System (ICVTTS) 2024. The conference, held on 27th to 28th September in Bangalore, India, was organized under the IEEE Vehicular Technology Society (VTS) Bangalore Section.

Prof. Sivasankari S S and Dr. Sneha Sharma Assistant Professor in the Department of Electronics and Communication Engineering, successfully completed the NPTEL-AICTE Faculty Development Programme on "System Design Through Verilog" The 8-week course, conducted by IIT Madras from July to September 2024.



# Departmental Activities

## Department of Aerospace Engineering

The Students from the department of aerospace engineering attended a webinar on “Predictive Maintenance Unlocking the Future of Machine Health” organized by AeSI Bangalore Branch in association with IEEE Ananthapuramu on 28th September 2024. The session will be chaired by Dr. Shital Patil-Solution Architect, Bosch Global Software Technologies.



The Department of Aerospace Engineering and Centre for Space Science and technology (CSST) organised a talk on 27th September 2024 titled "Touching Lives While Touching the Moon: India's Space Saga." The event featured distinguished guests, including Mr. N. Viswanatha, former Group Director of the Spacecraft Mechanisms Group at UR Rao Satellite Centre, ISRO.



## Department of CSE (Data Science)

The Inaugural ceremony of the **IEEE Information Theory Society (ITS)** Student Chapter was held on 23rd September 2024 at the CDSIMER Auditorium. The event was organized by the Department of Computer Science and Engineering (CSE) – Data Science, School of Engineering, in collaboration with the IEEE Information Theory Society (ITS).

The ceremony aimed to officially launch the IEEE ITS Student Chapter at DSU, providing a platform for students and faculty to engage with one of the most prestigious professional societies in the realm of information theory and technology. The chief guest of the event was Dr. Premananda B S, Senior Member of IEEE and Associate Professor at RV College of Engineering, Bangalore.

The organising team included Dr. Shaila S G, Chairperson of the CSE - Data Science Department, Dr. Pavan Kumar U, Faculty Advisor IEEE ITS Student Branch, DSU and Prof. Sindhu A, Faculty Coordinator of the IEEE ITS Student Branch at DSU.

Dr. Pushpa Mala S, the IEEE Student Branch Counselor, and Dr. Arun Balodi, Faculty Advisor of IEEE SPS and MTTs, DSU have supported the organizing team. The student committee included Nitin Prajwal R, Chair of IEEE ITS, Pavan Kumar G, Vice-Chair, Janardhan KS, Secretary, and other IEEE ITS members.



An Industry Visit to Hewlett Packard Enterprise, Bengaluru for Data Center/Technology Workshop was organized on 27th September 2024. The team included Department of CSE (Data Science) Faculties Dr. Shaila S G, Professor and Chairperson, Dr. U. Pavan Kumar. The primary objective of the visit was to gain insights into Data Center technology adopted by HPE. Niraj Kumar (Client Architecture) from Hewlett Packard Enterprise provided a brief idea about to set up High Performance Computing Lab at Dayananda Sagar University, Harohalli.



The DataScience@DSU Club, the Department of CSE (Data Science) organized Pre-Placement session on Pre-Placement Corporate Culture held on 27th September 2024, The objective of the session was to provide guidance to the requirements for a successful career in Corporate environments which include dynamism, knowledge about the market trends, technological advancements, and awareness to the evolving customer demands.

The session was organized by Dr. Shaila S G, Professor and Chairperson (DS), Prof. Shivamma D, Assistant Professor, Dept. of CSE (Data Science), and Prof. Monish L, Assistant Professor, Dept. of CSE (Data Science). More than 50 students have registered and participated in the event.

Resource Persons of the session were Ms. Roopa Priya JK, Placement Officer, SOE, DSU and Ms. Ritu, Trainer, CIL, SOE, DSU



The Logo League competition, organized on 23rd September, 2024 by the Department of Computer Science and Engineering (CSE) – Data Science, in collaboration with the IEEE Information Theory Society (ITS) Student Chapter. The event aimed to foster student creativity through the design of a logo that represents the IEEE ITS Student Chapter.

The event drew students from various disciplines, creating a space for innovation and creativity. The students and faculty members actively involved throughout the competition. Dr Rochna Roy, was the Jury for logo Making Event for ITS.

The Organizing team included Dr. Shaila S G Chairperson, CSE - Data Science, DSU , Dr. Pavan Kumar U Faculty Advisor, IEEE ITS Student Branch, DSU , Prof. Sindhu A Faculty Coordinator, IEEE ITS Student Branch, DSU.



The DataScience@DSU Club, the Department of CSE (Data Science) & IEEE student Chapter-Information Theory Society organized MATLAB DAY 2024 celebration on the theme "Unlocking Creativity: MATLAB for the Future" held on 25th September 2024. More than 10 students have registered and participated in the event.

The organizing team included Dr. Shaila S G, Professor and Chairperson (DS), Prof. Shivamma D, Assistant Professor, Dept. of CSE (Data Science), and Prof. Monish L, Assistant Professor, Dept. of CSE (Data Science).

The Resource Persons for the event were Mr Avinash V, Application Engineer of MathWorks Mr. Rakshith B S, Senior Application Engineer for MathWorks products and Subhajit Goswami, Senior Education Customer Success Specialist at MathWorks. The resource persons officially inaugurated MATLAB and the primary objective is how MATLAB can be used to enhance productivity in academic and industrial applications.



**DIVANANDA SARASWATI UNIVERSITY**  
 School of Engineering  
 DEPARTMENT OF COMPUTER RESOURCES AND ENGINEERING (DATA SCIENCE)

In association with  
 International Institute of Information Technology  
 In organizing  
**MATLAB DAY**  
 ON "UNLOCKING CREATIVITY: MATLAB FOR FUTURE ENGINEERS"

**Speakers:** Dr. Anand Kulkarni, Application Engineer, Maharashtra Engineering College and Institutions, Maharashtra, India  
 Dr. Anand Kulkarni, Senior Application Engineer, Maharashtra Engineering College and Institutions, Maharashtra, India

**Organizers:** Dr. Anand Kulkarni, Application Engineer, Maharashtra Engineering College and Institutions, Maharashtra, India  
 Dr. Anand Kulkarni, Senior Application Engineer, Maharashtra Engineering College and Institutions, Maharashtra, India

**Event Details:**  
 Date: 25th September 2024  
 Time: 9:00 am - 6:00 pm

**Registration:**  
 Free

**Register Here**

## Department of Computer Science and Engineering

Department of Computer Science and Engineering (CSE), organized DSU DEVHACK 2024, 36 hours(27 & 28 September 2024) national-level hackathon, gathering brilliant minds from across the country to tackle real-world challenges with cutting-edge technology. This event serves as a platform for students to showcase their problem-solving skills and creativity through intense coding sprints.

**Faculty Coordinators:** Dr. Bipin Kumar Rai, Professor, Department of CSE, Dr. Meenakshi Malhotra, DSU-ACM Student chapter – Faculty sponsor Associate Professor, Department of CSE

Participants Details Number of registrations: 2000+ participants (600+ teams) from 132 colleges all over India, These teams were evaluated by the 10 Judges from the industry and the shortlists teams were intimated about the results on 23rd September 2024. Out of 400+ offline idea submissions, 56 teams were selected and Out of 100 idea submissions, 15 teams were selected.

The inauguration program started with a welcome by Prof Suvika KV, Assistant professor. Chief guest for the event Dr. Shrisha Rao, Professor and Dean(faculty), IITB and ACM distinguished speaker, Dr. Amit Bhatt in charge Vice-Chancellor DSU, Dr. Udaya Kumar Reddy K R, Dean, SoE, Dr. Naveen Babu, Associate Dean, SoE, Dr. Girisha G S, Chairperson, Department of Computer Science Engineering and the, Dr Bipin Kumar Rai, Faculty Coordinator, DSU DEVHACK 24 inaugurated the event.

Dr. Amit Bhatt in charge Vice-Chancellor DSU, addressed the students and motivated the participants to keep excelling.

Dr Bipin Kumar Rai, Faculty Coordinator, introduced the hackathon event and shared the hackathon statistics, prize pools with all the students and faculty members present. Dr Meenakshi Malhotra introduced the chief guest to the gathering followed by an insightful speech by Dr. Shrisha Rao.

1st place: DevCoders {RV College of Engineering, Bangalore}

2nd place: ElectroStorm {Dayananda Sagar College of Engineering, Bangalore}

3rd place: 1% {COER University, Uttarakhand} and Nah, I'd Win {Dayananda Sagar college of Engineering, Bangalore}

Online hackathon Winner: Team Dhriya, Mumbai University, Maharashtra showcasing exceptional innovation and creativity.





## Department of CST

The students of the CST department conducted an industrial visit to the Harohalli Industrial area on On 25th September 2024, The purpose of the visit was to gain practical insights into industrial operations and to understand the application of theoretical knowledge in a real-world setting and interacting the managers and workers to identify the problem statements and automation problems. The visit to the Harohalli industry area was a valuable experience for the CST students, beneficial for their future careers.



The Department of Computer Science & Technology hosted a seminar titled “Expert Talk on Entrepreneurship & Innovation” by Dr. Bahubali Shriagapur, Professor, Dept. of AIML, Dayananda Sagar University on 26th September 2024 . The Resource person shared his expertise on various aspects of entrepreneurship, technology, and disruptive innovations.

The seminar began with introduction of speaker by 5th sem student Pranathi and Dr. Santosh Kumar J facilitated Dr. Bahubali Shriagapur The seminar delved into essential requirements for successful entrepreneurship. The discussion was on the importance of Computer Science and Engineering in shaping the future by leveraging innovation in entrepreneurship.



the Department of Computer Science and Technology organized an expert talk on “on Innovate with Confidence: Tackling Microsoft AI Skill Challenges” on 27th September, 2024 for 5th semester students. Dr. Gomathi S. conducted the session and discussed on Microsoft , the most valuable Professional through online mode. This session helped the students to equip with AI skills, exciting roles in technology and engaged in practical knowledge through interactive challenges.







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