



DAYANANDA SAGAR
UNIVERSITY



SCHOOL OF
ENGINEERING

SOE - "The Weekly Buzz"

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



Week#47 (Nov 18 to 23 Nov, 2024)

www.dsu.edu.in

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, Associate Professor, Dept of CSE has successfully attended the Bengaluru Tech Summit-BTS 2024 from 19th to 21st November 2024 at Bengaluru palace as a delegate.



- Dr. Naresh P, Assistant Professor, Department of CSE has successfully completed free online course on “Free Datasets in Analytics” on November 2024 and also attended 5 days online FDP on “Next-generation Technologies on information and communication” from 5th to 9th November 2024 organized by Bengal College of Engineering and Technology.



- Prof. Naitik ST, Assistant Professor, Department of CSE has successfully published a Journal paper in Scopus indexed Q3 paper with the title “Design and Development of Multimodal Biometric System Using Finger Veins and Iris by CNN Integrated with Hybrid SIO and Whale Optimization Techniques”, in the journal International Journal of Interactive Mobile Technologies and the publisher is International Federation of Engineering Education Societies (IFEES) during November 2024. <https://doi.org/10.3991/ijim.v18i22.50865>.



- Prof Suvika K V and Prof Mala B A, Assistant Professors published a paper in the Scopus indexed Journal with the title “A Survey on Application of Analytics in Legal Profession” in the Journal GRENZE International Journal of Engineering and Technology during November 2024.



- Mr. S Shreenidhi (ENG23CS0169), Mr. Vinit S (ENG23CS0221), Mr. Jithin Gowda N (ENG23CS0328) as team of "Cosmic X Coders" were shortlisted as the Global Nominee for the NASA Space Apps Challenge 2024.



Department Of CSE (AIML)

- Dr. Shreyas Rajendra Hole, Assistant Professor, Dept. of CSE (AI&ML) has awarded certificate of appreciation for distinguished participation and valuable contribution in chairing the technical session ECPS&CI-2024 conference held on 8th-9th November 2024.



- Dr. Lakshmanan, Assistant Professor, Dept. of CSE (AI&ML) has awarded reviewer certificate in recognition of their contribution to one manuscript in 2024 for Scientific Reports.



Department Of CSE (Cyber security)

- Prof.P.Ranjima has participated in the Five days online Faculty Development Program organized by Department of Computer Science and Engineering from “INFO Institute of Engineering” from 18.11.2024 to 22.11.2024.



Department Of Physics

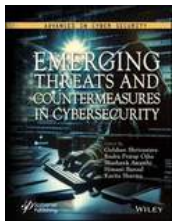
- Dept. of Physics, SOE, Dayananda Sagar University in collaboration with the International Affairs Wing of Dayananda Sagar University, successfully conducted an International Research and Collaborative talk by Dr Nigel Copner, Aberystwyth University, UK, on 21st November at SoE, DSU. He discussed recent innovations in electrical and electronic engineering, including photonics. He also elaborated on the Higher education and research, at Aberystwyth University, UK, extended collaborative research with Faculties of DSU and enlightened about the student exchange our both Universities can work with.
- Faculties from Dept. of Physics, SOE, DSU, Dr.Rajesh Cherukuas, Principal Investigator along with Dr. M.V. Hanumantha Rao as the Co-Principal Investigator was awarded, ISRO funded project under “RESPOND Programme” entitled "Indigenization of thickness monitor for precise control of thin-film depositions in optical coating applications" for a period of Two years with total outlay of, 27,97,200/- (Rupees Twenty Seven Lakhs Ninety Seven Thousand Two Hundred only)



Department Of ECE

- Dr. Ashwin Desai, Associate Professor, Dept. of ECE, SOE-DSU presented "Prediction of Novel CXCR7 Inhibitors Using QSAR Modeling and Validation via Molecular Docking" in First IEEE International Conference for Women in Computing (InCoWoCo 2024), Symbiosis Institute of Computer Studies and Research (SICSR), Pune, Maharashtra, India, November 14–15, 2024.
- Fellowship to Attend Prestigious International Conferences on VLSI Design and Embedded Systems, Dr Pushpa Mala S, Associate Professor, Department of Electronics and Communication Engineering has been awarded the fellowship for attending 38th International Conference on VLSI Design & 24th International Conference on Embedded System scheduled from 4-8th Jan, 2025 at Leela Palace.
- Dr. Arun Balodi Speaks on Reinforcement Learning in Healthcare; Dr. Arun Balodi, Professor & Chairman of Electronics and Communication Engineering at Dayananda Sagar University, delivered a session on Reinforcement Learning in Healthcare at the FDP on Generative AI: Foundations, Applications, and Future Directions. The event, held on 20th November 2024, was organized by E&ICT Academy IIT Roorkee and Delhi Technical Campus, Greater Noida, showcasing advancements in AI and its applications in healthcare.
- Dr. Arun Balodi, Professor and Chairman of the Department of Electronics and Communication Engineering at Dayananda Sagar University, was awarded a Certificate of Appreciation at the 8th International Conference on Smart Grid and Smart Cities (ICSGSC 2024). The conference, held from October 25–27, 2024, in Shanghai, China, recognized Dr. Balodi's outstanding contributions as a member of the technical committee and his significant efforts toward the event's success. His expertise and dedication have been instrumental in advancing research and collaboration in the fields of smart grids and smart cities.

- Dr. Arun Balodi, Chairman of the Department of Electronics and Communication Engineering at Dayananda Sagar University, has co-authored the chapter "Insider Threat Detection and Prevention: New Approaches and Tools" in the renowned book "Emerging Threats and Countermeasures in Cybersecurity," published by Wiley.
- The chapter presents innovative methods for identifying insider threats, advanced tools for prevention, and practical strategies to establish effective threat management programs.



Department of Mechanical Engineering

An industry interaction meeting was conducted on 20th November 2024 at the DSU SOE campus, Ramanagara, Karnataka. The meeting focused on exploring advancements in 3D printing technology and fostering industry-academia collaborations in this cutting-edge domain.

Key industry representatives included Mr. Deepak Saligram, Sales Head - Wipro 3D, Mr. Ashan Dhunna, General Manager - Nikon SLM. Faculty members Dr. Vinayak B Hemadri, Professor & Chairperson and Dr. Viswanathan R, Associate Professor Dept. of Mechanical Engineering. Dr. Pramod Kumar Naik, Professor & Chairperson Dept. of AI & Robotics and Ms. K Sudha Deepthi, Manager- Bosch Rexroth Innovation Lab, SOE – DSU were also present, contributing to insightful discussions. The meeting highlighted the potential of 3D printers in transforming industries, discussed ongoing technological trends, and explored ways to integrate 3D printing knowledge into academic curricula.

This initiative underscores DSU's commitment to staying at the forefront of technological advancements and preparing students for future industry needs.



Department of Artificial Intelligence and Robotics

- Dr. Rupam Bhaduri, Professor (Research and Acad.) in the AI & Robotics Engineering Department, recently participated in the “Technology Conclave” organized by the Department of Science and Technology (DST) under the Ministry of Science and Technology, Government of India. During this event, held in Wayanad, Kerala, Dr. Bhaduri presented on the research advancements for the collaborative project titled "Integrated Clean Energy Material Acceleration Platform (IC-MAP)." The presentation was part of a seminar attended by the Collaborative Principal Investigators (PIs) from India's leading institutions and CSIR laboratories, including IIT Madras, IIT Guwahati, IIT Hyderabad, IIT Ropar, NIT Trichy, CSIR-ARCI Hyderabad, and CSIR-NIST Trivandrum, among others from Dr. Bhaduri's project group.



- Dr. Rupam Bhaduri, Professor (Research and Acad.) in the AI & Robotics Engineering Department and his research scholars, recently produced a publication (AY-2024-25) in a very prestigious Quartile-1 (Q1) Journal. Title: “Perovskite Solar Cell Stability Analysis Using Entropy-Based Support Vector Machine Learning”, Progress in Photovoltaics: Research and Applications, DOI: 10.1002/pip.3861. Impact Factor: 8.0. SCI, Scopus & WOS Indexed, Publisher: J. Wiley & Sons., USA & UK.



The screenshot shows the Wiley article page for the paper "Perovskite Solar Cell Stability Analysis Using Entropy-Based Support Vector Machine Learning". The page includes the journal title "PROGRESS IN PHOTOVOLTAICS", the authors "Rupam Bhaduri¹ & Shantanu²", and the publication date "15 July 2024". The abstract is partially visible, starting with "Lead halide perovskites have demonstrated significant potential for photovoltaic (PV) applications over the past 10 years. Perovskite solar cell (PSC) activity, however, continues to face their commercialization, and this led to explore previous existing data to assess possible processes for increasing device stability is guided by a set of effectively automated unified stability testing and decomposing standards. In this article, we suggest applying machine learning (ML) to improve the thermal, chemical, and structural stability of PSCs. From the abstract, the authors demonstrate the use of entropy-based support vector machine (ES-SVM) for stability analysis of PSCs. The page also features a sidebar with "PHOTOVOLTAICS" branding and a list of related articles.

Departmental Activities

Department of CSE (Data Science)

- The DataScience@DSU Club of the Department of CSE (Data Science) celebrated Lakshmi Pooja on 20th November 2024 as part of the Navaratri festivities. Organized by Dr. Shaila S G, Professor and Chairperson, along with Prof. Shivamma D and Prof. Monish L, the event brought together students, faculty, and staff to honor Goddess Lakshmi, symbolizing wealth, prosperity, and well-being.
- Event Highlights Pooja Ceremony:** A beautifully decorated altar set the stage for the rituals, led by faculty and conducted in a spiritually uplifting manner. **Devotional Songs:** The chanting of hymns and Lakshmi Ashtottara Shatanamavali added to the sacred ambiance. **Active Participation:** Over 100 students from the 3rd and 5th semesters, along with faculty, enthusiastically participated in the celebration. **Cultural Performances:** The event featured devotional dances, musical recitals, and speeches by students on the significance of Lakshmi Pooja. **Prasadam Distribution:** The celebration concluded with the distribution of prasadam, symbolizing blessings and prosperity. This vibrant event emphasized gratitude, unity, and the DSU community's commitment to celebrating traditions.



- The DataScience@DSU Club of the Department of CSE (Data Science) organized a vibrant Dance and Singing Competition on 20th November 2024 for 3rd and 5th-semester students. Coordinated by Dr. Shaila S G, Prof. Shivamma D, and Prof. Monish L, the event showcased the immense talent and creativity of students, fostering confidence and camaraderie. The dance competition featured five dynamic teams performing diverse styles like classical, folk, and fusion, while the singing competition saw four teams presenting a variety of genres, including classical, pop, and Bollywood. Performances were judged by Dr. Rochna Roy, who provided encouraging feedback. The event concluded on a high note, celebrating the cultural richness and enthusiasm of the DSU community.



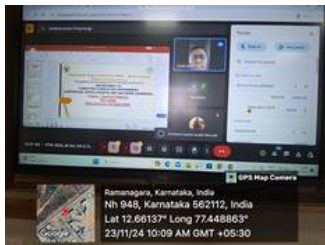
Department of Computer Science & Technology

On November 20th, 2024, the School of Engineering, Dayananda Sagar University hosted an awareness program titled " TGS – Profile.in Ideathon '24 for the 3rd and 5th semester students of DAYANANDA SAGAR INSTITUTIONS. The program was led by Mr. Venkatesh SV, founder of Profile.in, in Sinchana D Koushik. Who gave insights on Start-up ecosystem and role of students in utilizing various opportunities. Students were encouraged to Participate in the Ideathon '24, in which Over 100+ colleges, 10,000 students, and 1,000+ teams will be participating. One-Minute Pitch Competition was conducted for the interested students. The selected Teams will be allowed to participate in Quarter finals. A semi-final will be organized on 11th December at SoE level. The finalists will be given free Entry Pass to TIE Global Summit 2024 event at Bangalore International Exhibition Center, where futurepreneurs, investors, corporates network and share their knowledge. Cash prize up to 2 lakhs is declared for the students who win the Ideathon. Ms. Sinchana D Koushik mentored the students.



Department Of CSE (AIML)

- The Department of Computer Science & Engineering (AI & ML) conducted a Parent-Teacher Meeting (PTM) for 3rd, 5th and 7th-semester students on Saturday, November 23, 2024, from 10:00 AM to 12:00 PM. The meeting focused on students' academic performance, attendance, and overall progress, encouraging collaborative efforts for their development.



Department of Artificial Intelligence and Robotics

- The Department of Artificial Intelligence and Robotics (AIR) at Dayananda Sagar University (DSU) organized a two-day hands-on workshop on MATLAB and Simulink for its students. The workshop, conducted by Dr. Pramod Kumar Naik, Head of the AIR Department, focused on equipping students with practical knowledge and technical expertise in MATLAB and Simulink, two widely-used tools for engineering simulations, modeling, and analysis. The workshop provided students with valuable skills and practical insights into MATLAB, Simulink, and their applications in audio processing, spectrum analysis, and machine learning. Dr. Pramod Kumar Naik's expertise and interactive teaching methods were instrumental in the success of the workshop. The event reflects the AIR Department's commitment to empowering students with cutting-edge tools and knowledge, preparing them to excel in their academic and professional endeavors.
- The workshop spanned three days, offering an immersive learning experience for the participants. The sessions were meticulously designed to provide a balance of theoretical knowledge and practical application. The primary objective was to enable students to harness the capabilities of MATLAB and Simulink for solving real-world engineering problems.
- The workshop covered the fundamentals of MATLAB, including its interface, basic operations, and data visualization techniques. Students were introduced to MATLAB programming and were given exercises to build confidence in scripting and debugging. Dr. Pramod emphasized the importance of MATLAB in various engineering domains and shared insights into its role in modern-day problem-solving.



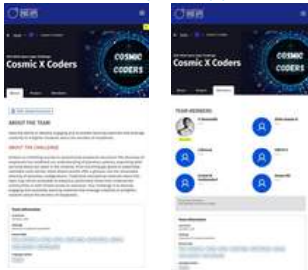
- Post-Inauguration Meeting of the Department of Artificial Intelligence and Robotics, Following the inauguration of the Roboverse at Dayananda Sagar University, a key meeting was held on 18th November 2024 at Lecture Hall 5, SOE block. Faculty members, esteemed professors, and delegates gathered to chart the roadmap for the department's growth. The discussions focused on the transformative role of AI and robotics, global collaborations, and strategies to secure funding for departmental initiatives.
- Discussions emphasized the profound impact of AI and robotics on industries such as healthcare, education, and transportation. Faculty stressed the importance of preparing students to meet these technological advancements and identified the department as a hub for skill development in AI and robotics.
- The meeting explored potential collaborations with international experts and institutions, particularly the Indian Institute of Science (IISc). Such partnerships aim to enhance the department's research opportunities, host expert-led workshops, and increase student engagement.
- To support the department's growth, the team discussed seeking sponsorships from corporations, applying for research grants, and approaching government bodies for funding. Establishing a dedicated fundraising team and leveraging international partnerships were highlighted as key steps.
- The meeting ended on a high note with a shared vision of turning aspirations into impactful realities. With strong collaborations and structured funding strategies, the Department of Artificial Intelligence and Robotics is poised to lead in technological innovation and student empowerment.



Student Activities

Department of Computer Science and Engineering

- Mr. S Shreenidhi (ENG23CS0169), Mr. Vinith S (ENG23CS0221), Mr. Jithin Gowda N (ENG23CS0328) as team of "Cosmic X Coders" were shortlisted as the Global Nominee for the NASA Space Apps Challenge 2024.



- Mr. Amith R (ENG21CS0033) and Ms. D Akshitha (ENG21CS0102), 7th semester, Department of CSE, under the guidance of Dr. Pramod Kumar Naik, published a research paper "An Advanced Approach to Detect and Classify Lung Nodules Using CT Images" at the "International Conference for Machine Learning Algorithms" held at Chitkara University, Himachal Pradesh.

https://link.springer.com/chapter/10.1007/978-3-031-75861-4_35.



- Ms. Shravya K S(ENG22CS0455), from 3rd year CSE, successfully participated in HAXLR8-HACKATHON Event held on 15th November 2024, organized by Dept. of ECE, Maharaja Institute of Technology Mysore.



- Mr. Saikumar Jadhav (ENG22CS0145) and Mr. Rahul Jadvani (ENG22CS0129), 5th sem CSE students secured the First Runner-Up position with a prize money of 100000 /-(one Lakh) in the "AI & Data science 24hrs codeathon" organized by RBiH and Canara Bank held on 20th & 21st of November 2024 at IIT Bengaluru.



- Mr. Karanveer Singh (ENG21CS1027), Ms. Akshaya Singh (ENG20CS0022), Mr. Saksham Dubey (ENG20CS0310), and Mr. Hemang Verma (ENG19CS0119) students CSE under the Guidance of Prof. Mala B A, Assistant professor, published a paper in the Scopus indexed Journal with the title "Smart Bin: A Segregation and Management of Garbage for Smart City using IoT" in the Journal GRENZE International Journal of Engineering and Technology during November 2024.



Grenze International Journal of Engineering and Technology, June 2024

Smart Bin: A Segregation and Management of Garbage for Smart City using IoT

Mala B.A, Karanveer Singh¹, Akshaya Singh², Saksham Dubey³ and Hemang Verma⁴
¹Assistant Professor, Dept. of CSE, School of Engineering, Techno India University, Bangalore, India
 Email: mala@technoindia.edu.in
²Dept. of VLSI, School of Engineering, Techno India University, Bangalore, India
 Email: 2024engp2211.akshayasingh@tius.ac.in/hemang@tius.ac.in/2024engp2211.singh@tius.ac.in

Abstract— Smartbins are used for disposing the waste. When it gets overfilled, people need to clear the waste outside the smartbin until the garbage collector clears the smartbin. It makes the place surrounded by smartbins, busy etc. and mainly affects the environment and creates several adaptation problems. To overcome this problem, we have proposed a system called "Management of garbage by segregating the wet and dry waste using Internet of Things(IoT) in long cities like" which makes managing easier and creates a smart city. The sensors are placed on the top of wet and garbage bins to measure the amount of trash and find the formation of any toxic gases. These sensors make the measure and the notification in form of message to waste management board. So that they can identify the location and garbage collector reach to the place as soon as possible and clear the place. The proposed system is developed using Arduino, ultrasonic sensor, temperature sensor, gas sensor and RFID tag. It offers several benefits to the users such as Predictions for hazardous and gasous, motion sensor which can prevent from harmful bacteria and gasous and gives engine surrounding. Because of sensor technology, there is no need to touch the trash on the opening or closing. Finally provides a better garbage management.

Index Terms:— IoT sensor, Arduino, IoT, IFCB, RFID.

Department of CSE (Data Science)

- Shashi Kumar C has successfully completed the HP LIFE online Course Effective Leadership in association with HP Foundation on 21-11-2024.



Department of CSE (AIML)

- Ms. Sneha Patra, (ENG23AM0195), III semester student, Dept. of CSE (AI&ML) awarded second prize in Indian solo dance performance AT CHIGURU-2024 held at Cambridge Institute of Technology, Bengaluru on 23rd November 2024.



Department of CSE (Cyber Security)

- Mr.Sachin Baluragi (ENG22CY0020), Mr.Rahul Jadvani (ENG22CS0129), Mr.SaiKumar V Jadhav (ENG22CS0145), Mr.Mohammed Yaseen Sutar(ENG22AM0182), team of four members demonstrated exceptional innovation and technical expertise at Quantamaze 2.0 Hackathon, a 36-hour coding marathon organized by the Q-Bits Club of Nitte Meenakshi Institute of Technology, Bangalore, from November 14 to November 16, 2024.Competing in the domain of Web3 and Blockchain, the team was awarded the prestigious Best Project Award for their outstanding project titled Feed Forward: Decentralized Food Redistribution Platform, aimed at revolutionizing food redistribution using blockchain technology.
- Mr. Shashank B S (ENG21CY0040), has obtained certificate of completion for the course titled Ethical Hacking/Penetration Testing & Bug Bounty Hunting from Udemy on 24.11.2024 and the total duration of the course was 11.5 hours.
- Ms.Anagha R(ENG23CY0005),has successfully participated in the AI Quiz-organised by IEEE CIS Student chapter from the department of CSE(Artificial Intelligence and Machine Learning)on 20.11.2024 at Dayananda Sagar University.
- Ms.Deepika N P(ENG23CY0012), has successfully participated in the AI Quiz-organised by IEEE CIS Student chapter from the department of CSE(Artificial Intelligence and Machine Learning)on 20.11.2024 at Dayananda Sagar University.



Kannada Rajyotsava Celebration

- Kannada Rajyotsava Celebration, 22nd November 2024, SOE, DSU, Harohalli, Bengaluru, Time: From 11:00AM.
- The Kannada Rajyotsava celebration at Dayananda Sagar University was a grand and lively event that brought together students, faculty, and distinguished guests to celebrate the rich cultural heritage of Karnataka. The event, held at the university's Arena, featured various performances, a rally, speeches, and special appearances, showcasing the pride and unity of the Kannada-speaking community. The event was graced by Guru Kiran, the renowned music composer and singer, who was the chief guest for the occasion. Along with him, prominent personalities from the Kannada film industry, Ashvithi Shetty and Shrinidhi Shashtri, attended and shared their thoughts on the importance of the Kannada language and culture. The program commenced with the ceremonial lighting of the lamp, symbolizing the illumination of knowledge and wisdom. Following this, the national anthem and the Kannada anthem were sung, setting a tone of reverence and unity.
- Guru Kiran, in his inspiring address, spoke about the deep connection between the Kannada language and its people. He reflected on how the Kannada language has been integral to his career in the Kannada film industry and shared personal stories of how the language shaped his musical journey. He urged the students to take pride in their heritage, emphasizing the importance of using Kannada in everyday life and preserving it for future generations.
- Ashvithi Shetty, the popular Kannada actress, captivated the audience with her speech on the cultural significance of Kannada cinema. She shared her personal experiences in the film industry, highlighting the role of Kannada in spreading Karnataka's cultural identity across the world. She encouraged the youth to explore the state's rich cultural diversity through various forms of art, including cinema.
- Shrinidhi Shashtri, the dynamic actor, spoke about his connection to the Kannada language and how it has shaped his career. His words resonated with the audience as he reminded everyone of the importance of preserving and promoting Kannada in every field, from entertainment to education.

- The event featured several cultural performances, beginning with an energetic Dollu Kunitha performance. This traditional Karnataka folk dance, accompanied by rhythmic drumming, showcased the strength and vigor of the state's cultural heritage, leaving the audience mesmerized. The celebration also included a rally, where students and faculty marched through the university, proudly displaying Kannada flags and chanting slogans that celebrated the language and culture. The rally was a symbolic display of unity, highlighting the importance of Kannada as a shared identity. Several other cultural performances were presented by the students, including classical dance forms and folk music, which further enriched the event and celebrated Karnataka's vibrant traditions.
- A special prize distribution ceremony was held to recognize the outstanding participation of faculty members in the various events conducted as part of the Kannada Rajyotsava celebration. The awards were presented to faculty members who had actively participated in the cultural activities and competitions, including traditional dance, music, and other cultural displays. Their dedication to embracing Kannada language and culture within the university was honored with accolades.
- In an unexpected but delightful turn, Guru Kiran also took to the stage and performed a short musical segment, singing popular Kannada songs that resonated deeply with the audience. His performance was met with much enthusiasm and applause, bringing the event to a spirited and energetic conclusion.
- The Kannada Rajyotsava celebration at Dayananda Sagar University was a grand success, filled with cultural richness, inspiring speeches, and lively performances. With the presence of Guru Kiran, Ashvithi Shetty, and Shrinidhi Shashtri, the event beautifully captured the essence of Karnataka's language and culture. The various performances, including the Dollu Kunitha, the rally, and the prize distribution, highlighted the pride of the Kannada people and their strong cultural roots.
- As the event concluded, the attendees left with a renewed sense of pride and responsibility to preserve and promote the Kannada language and culture, ensuring that it continues to thrive for generations to come.



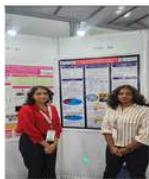
Report - OUT REACH PROGRAM, SoE, DSU

- An outreach program for school students was organised at DSU – Harohalli Campus on 22nd November 2024. 122 students of II PU of 3 schools of Hosur Maharishi Vidya Mandir School, Mount Carmel School and Hosur Public School along with 9 accompanying staff visited Dayananda Sagar University, Harohalli Campus. The visit was organised by Admission department where students were taken around CDSIMR (Medical college), college of Allied Health Sciences, School of Engineering and campus tour covering hostels and sports facilities.
- At School of Engineering, Associate dean Dr. Naveen Babu oriented the students about different Courses offered, faculty, student affairs, international affairs, technical and non technical clubs on campus along with facilities. He also showcased the achievements of faculty and students in terms of research and hackatons. Dr. Seema Tharannum, Professor, Biological Sciences hosted a Quiz for students and engaged them with fun activities.

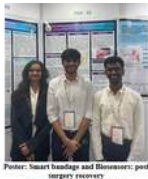


Bengaluru Tech

- The 27th edition of Asia's largest Technology Event, the Bengaluru Tech Summit 2024 was organised during November 19th to 21st 2024 at the Bangalore Palace by the Department of E, IT and Bt, Government of Karnataka, in partnership with Karnataka Innovation and Technology Society (KITS) and Software Technology Parks of India (STPI) as the Co-Host and in association with leading industry bodies like NASSCOM, IESA, TiE, ABAI, ABLE, USIBC and AMCHAM. The central theme of BTS was 'Breaking Boundaries,' to the next level, to Unbound. Bengaluru Tech Summit attracts the world's foremost leaders, innovators, and disruptors, drawing over 50,000 tech enthusiasts from India as well as delegations from more than 40 nations.
- Bioposters a part of Bio tech summit was a platform for all students and researchers to showcase their breakthrough ideas of Biopharma, Agritech, Medtech and other Biotech sectors. Fifteen students of School of Engineering, Dayananda Sagar University were selected to present posters at Bioposter presentation. The students were guided by Dr. Seema Tharannum, Professor, SoE, DSU. The poster titles were a blend of computers and Biology and the students effort was highly appreciated by jury members.
- Mr. Shambuling (ENG23CS0180), 3rd Semester, Dept of CSE has successfully attended the Bengaluru Tech Summit-BTS 2024 from 19th to 21st November 2024 at Bengaluru palace as a Visitor.
- The Dept of CST, 4th-year students participated and exhibited their projects at Bangalore summit 2024 event, which provided innovative solutions aimed at addressing real-world challenges through cutting-edge technology. It serves as a platform to foster collaboration, inspire advancements, and drive impactful outcomes across industries.



Poster: Mycotoxins: Health effects
Tanya Gobal (3rd year AIML)
Vishwanth (3rd year AIML)



Poster: Smart bandage and Biosensor: post surgery recovery
Smiti Dikar (3rd year CSE)
Aditya N (3rd year CSE)
Eashwanth Bhat (3rd year CSE)



Poster: Medical image segmentation with
Bilal Ahmed (3rd year CSE)
Srujan Pandey (3rd year CSEC)
Shashwat Sethi (3rd year AIML)



Poster: Smart health using AI
Samskruthi B (1st year AIML)
Kavyashree Visali (1st year CSE)



Poster: Computers in Drug Discovery
Hiba Saadi (1st year CSE)
Sara Mohammedi (1st year AIML)
Rudheer Anjali (1st year ASE)
Sahil SA (1st year CSE)



Collaboration Opportunities Between DSU and HCL Tech

- On November 22, 2024, a pivotal meeting was held in the Boardroom of the School of Engineering (SOE), Dayananda Sagar University (DSU), to discuss collaboration opportunities with HCL Tech. The event, chaired online by Dr. Udaya Kumar Reddy K (Dean – SOE) and organized by Dr. G. Naveen Babu (Associate Dean – SOE), marked a significant milestone in fostering innovation, skill development, and industry alignment.
- The discussions emphasized key areas such as Applied AI, Robotics, Healthcare AI, and Data Science, with HCL Tech showcasing its expertise in setting up AI labs and designing interdisciplinary programs. The company proposed initiatives including skilling programs, research collaborations, and industry-driven certifications, aimed at equipping students and faculty with globally competitive skills.
- Key outcomes of the meeting included: Plans for customized training programs tailored to emerging industry needs, Proposed infrastructure upgrades to support advanced research and learning. Agreement on signing a non-commercial NDA to formalize the collaboration, This partnership aspires to position DSU as a hub for innovation by integrating cutting-edge technologies, aligning academic efforts with industry demands, and enhancing the global employability of students.



Hackathon for Six Phrase Students at DSU

- On November 23, 2024, a hackathon titled "Hacking for Good" was successfully conducted at Lecture Theatre 2, Dayananda Sagar University (DSU), from 9:00 AM to 12:00 PM, organized by Six Phrase for 3rd-year B.Tech students. The event is to encourage students to develop new skills, such as problem solving, critical thinking, creativity, and time management.

The following students have won the prize:

- 1st Prize: Poojvanth, USN: ENG23AM3003, CSE-AIML Branch secured Prize Amount of Rs: 10,000
- 2nd Prize: Rakshitha, USN: ENG22AM0190, CSE-AIML Branch secured Prize Amount of Rs: 5,000
- 3rd Prize: Sujal Patel, USN: ENG22AM0136, CSE-AIML Branch secured Prize Amount of Rs: 3,000

The poster is for a hackathon titled "HACKATHON For Six Phrase Students". It is scheduled for November 23rd, 2024, as an assessment-online event. The theme is "Hacking for Good" with the tagline "What Do You Want to Build Today?". The event takes place at Lecture Theatre 2 from 9 AM to 12 PM. A starburst graphic lists the prizes: 1st Prize (Rs. 10000), 2nd Prize (Rs. 5000), and 3rd Prize (Rs. 3000). The poster features logos for Dayananda Sagar University, Six Phrase, Pivando, and TALENTLY. A "JOIN US" section at the bottom provides contact information for the organizing department.



**SCHOOL OF
ENGINEERING**

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