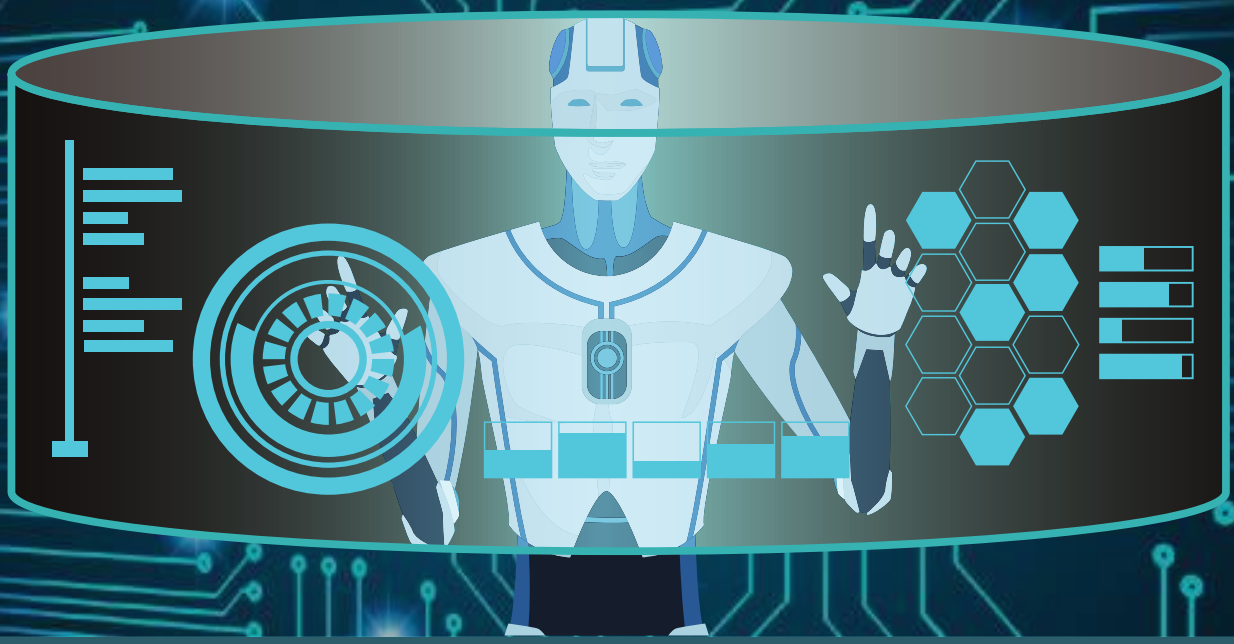
JANURARY-MARCH 2025 VOLUME 04 ISSUE 03



CSE EDUINSIDE

Department Newsletter

Department of Computer Science and Engineering, SOE, DSU, Harohalli

DAYANANDA SAGAR UNIVERSITY

VISION AND MISSION OF THE INSTITUTE

VISION

To be a centre of excellence in education, research & training, innovation & entrepreneurship and to produce citizens with exceptional leadership qualities to serve national and global needs.

MISSION

To achieve our objectives in an environment that enhances creativity, innovation and scholarly pursuits while adhering to our vision.

VISION AND MISSION OF THE SCHOOL

VISION

To transform life through Excellence and Innovation in Engineering Education and Research with an emphasis on Sustainable, Inclusive Technology and Global needs.

MISSION

To Develop School of Engineering at Dayananda Sagar University, as Center of Excellence by imparting Quality Education and Research to generate highly Competent,Skilled and Humane manpower to face emerging Technological, Scientific and Social challenges with Ethics, Integrity, Credibility and Social concern.

VISION AND MISSION OF THE DEPARTMENT

VISION

To be recognized as a department of eminence in Computer Science and Engineering focusing on sustainability, inclusive technologies and societal needs.

MISSION

The Department of Computer Science and Engineering is committed to:

M1: Impart quality technical education by designing and delivering contemporary Computer Science Engineering curricula while emphasizing leadership, ethics, values and integrity.

M2: Transform professionals into technically competent through industry-academia collaboration and innovation ecosystem.

M3: Prepare Computer Science and Engineering graduates to meet ever-growing societal needs.

ABOUT THE DEPARTMENT

The Department of Computer Science & Engineering was started in the year 2015. It offers Undergraduate Programme, B. Tech Computer Science & Engineering, which prepares students for the current and future demands of industry and the research world.

The Department offers a Master's Programme namely, M. Tech in Computer Science & Engineering. This programme prepares students to become leaders in knowledge driven professions. In order to provide ample opportunity for innovation and research, the department offers Doctoral Programme (PhD) in Computer Science & Engineering and allied areas.

The Department has collaborated with NTTF to offer Two Vocational Degree Programmes namely, B.Voc in Information Technology (Data Analytics), and B.Voc in Computer Engineering & IT Infrastructure. B.Voc is a three-year duration undergraduate programme. This program builds specific job skills in students so that they can serve the industries better.

The Department of Computer Science and Engineering (CSE) has thirty one faculty members with the doctorate degree and twenty six pursuing the doctoral studies Programs offered by the Department include all sub disciplines and intellectual enterprises of Computer Science and Engineering Discipline.

The faculty members in the Department are active in the Research Areas of Artificial Intelligence, Machine Learning, Data Science, Network Security, Networks & IoT. Wireless Networks, Block Chain Technologies, Big Data, Data Mining, Data Analytics, Cloud Computing, Image Processing, Computer Vison and Video Analytics, Information Retrieval, etc. Apart from core courses, the Department also offers Liberal Studies Courses (as per NEP- 2020). Liberal studies focuses on creating synergy between Humanities, Social Sciences, Performing arts, Law, Management, Fine Arts, Yoga, Painting, Music etc.

Department has well equipped and state-of-the-art Laboratories to train students in various technologies. The Department also makes use of the Innovation Laboratories such as NVidia's High Performance Computing Lab & Analog Devices Lab to train its UG and PG students in the respective technology areas and research.

The Department also conducts value added courses on emerging technologies and industry specific domains. These courses are conducted beyond college hours/summer semester by the faculty of the department. The Department has MoU's with IT Industries like NVIDIA, Analog Devices, UiPath and CodeChef. Department also has several MOU's with academia such as Nokia University, Purdue Indiana University. The Department encourages students to take up MOOC based online courses in NPTEL, Coursera, Udacity and edX. The Department organizes Symposia, Exhibitions, Conferences, Seminars, Hackathons, and Workshops for both students and Faculty.

The Department has many Adjunct Professors/Professor of Practice who typically have positions at Industry or other institutions to bring in the industry expertise and research regour in our programmes. provide specialized supervision of student projects.

The students of CSE Department are placed in various top MNCs like IBM, Accenture, Capgemini, Cognizant, Wipro, Infosys, Mindtree, Intel, Mercedes Benz, Sap Labs etc. with an emolument in the range of 4.78 Lakhs to 27 Lakhs per annum.

DEAN'S MESSAGE

DR. UDAYA KUMAR REDDY K R
DEAN, SCHOOL OF ENGINEERING,
DSU

BE YOU
BE THE DIFFERENCE!!!

Welcome to the new way of learning at School of Engineering (SoE) of Dayananda Sagar University (DSU). At SoE, we are committed to helping you to make a positive difference in the world.

We at SoE are immensely proud to provide all of our students with an outstanding education that equips them with the skills, experience, and confidence required to stand out from the crowd. The School promotes Culture of Excellence including the culture of Interdisciplinary, Research, Creativity, Innovations, and Entrepreneurship on various Cutting-Edge Technologies. We at SoE, provide the World-Class Education that is Student-centric, Research-centric, and Educational space where all of our students will have a transformative education, learn to be independent critical thinkers, be societally and ethically responsible, and to have a broad understanding of the world. We value ability, not background, and we support all of our students to achieve their potential. We want you to enjoy your time here, confident that, upon completion of Engineering degree program under SoE, you will have the knowledge, expertise, and employability skills to set you on your chosen career path. The decision you make about where to study is an extremely important one. I am pleased you are considering the School of Engineering at DSU, and hope that you choose to continue your education with us.

BEST WISHES !

CHAIRMAN'S MESSAGE

DR. GIRISHA G S
PROFESSOR AND CHAIRMAN

Welcome to the Department of Computer Science & Engineering, School of Engineering at Dayananda Sagar University!

It is a matter of pride for me to present Issue 3, Volume 4 of the CSE Newsletter for the academic year 2024-25.

We are publishing this newsletter four times a year, providing you with regular updates about student and faculty achievements, as well as academic and research activities in the department.

In this issue, we are delighted to showcase the achievements and highlights of the department from the past three months.

I sincerely thank the editorial board, staff, and students for their wholehearted support in the preparation of this newsletter. I also invite you to share your comments and suggestions with us on how we can make this newsletter more meaningful to you.

BEST WISHES !

DAYANANDA SAGAR UNIVERSITY

DEPARTMENT ACTIVITIES

GUEST LECTURE - BRIDGING AI AND NLP AT THE INSTITUT DE TECHNOLOGIE DU CAMBODGE, PHNOM PENH, CAMBODIA.

Prof. Arjun Krishnamurthy, Faculty at the Department of CSE , SoE , Dayananda Sagar University was invited to Institut de Technologie du Cambodge in Phnom Penh, Cambodia as guest speaker for a workshop in 2nd January 2025. The workshop was held at Département de Génie Informatique et Communication. The Institute of Technology of Cambodia (ITC) is the best of Cambodia's higher education institutions. Prof. Arjun successfully conducted the workshop, titled "Bridging AI and NLP", focused on introducing the fundamental concepts of Artificial Intelligence (AI) and Natural Language Processing (NLP) and their diverse applications in various industries.

The workshop sessions covered a comprehensive overview of AI, deep learning, and NLP, emphasizing their practical applications in solving real-world challenges. Additionally, he had the opportunity to demonstrate three hands-on projects on Deep Learning for NLP that provided participants with valuable, practical insights into these technologies. These sessions were attended by approximately 50 participants, consisting of students and research scholars eager to expand their knowledge in this exciting field.

One of the highlights of his visit was the productive discussion with Prof. Lay Heng, the Dean of the Department of Information and Communication Engineering at ITC. We engaged in a utilitarian conversation about potential collaborative research opportunities and prospective joint projects. This discussion marked an important step towards fostering meaningful partnerships between our institutions that will further contribute to advancing research and innovation in AI.

The experience at ITC was both enriching and rewarding. Prof. Arjun is confident that this workshop has laid the foundation for future collaborations, and we look forward to the possibility of continuing to work together with ITC on upcoming initiatives, student exchange programs and collaborative research projects.

The Department of CSE would like to express sincere gratitude to GIC, ITC for their warm hospitality and to Prof. Lay Heng for his insightful contributions and enthusiasm towards fostering academic and research collaboration.

INDOOR FACULTY SPORTS

The Indoor Faculty Sports event was successfully conducted on January 1, 2025, organized by the Department of Computer Science and Engineering (CSE). The faculty coordinators for the event were Prof. Pooja Shree H R and Prof. Priyanka S. Marellavar from the CSE department.

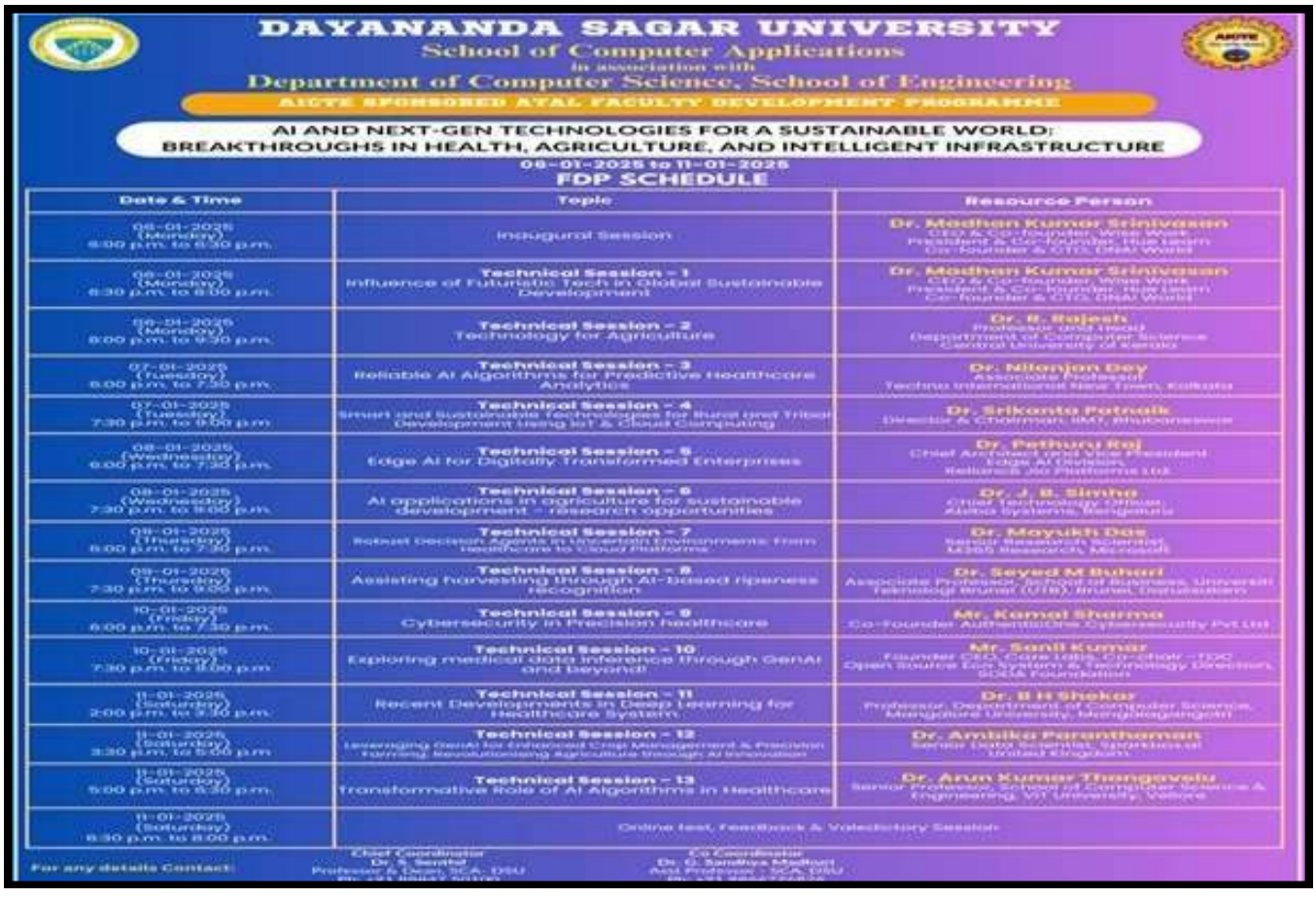
The event aimed to promote health, teamwork, and camaraderie among faculty members. A variety of team and solo activities were conducted, ensuring enthusiastic participation from faculty across all departments. The team events included Balancing the Balloon (4 members per team), Blind Snake (5 members per team), Pick Up the Ball (6 members per team), and Treasure Hunt (6 members per team). In addition, Dumb Charades brought an element of fun and creativity to the event.

Solo events like Lemon and Spoon and Musical Chair tested individual balance, focus, and reflexes, adding a competitive yet enjoyable touch. The variety of activities provided an engaging and inclusive platform for all participants, making the event vibrant and memorable.

Special thanks to our Dean, Dr. Udaya Kumar Reddy, and Department Chairperson, Dr. Girisha G.S., for their support in conducting and ensuring the success of the event. Their encouragement and guidance played a crucial role in making the event successful.

Initiatives like this play a vital role in fostering bonds within the academic community and emphasizing the importance of maintaining a healthy work-life balance.

AICTE ATAL - SIX-DAY ONLINE FACULTY DEVELOPMENT PROGRAM ON "AI AND NEXT-GEN TECHNOLOGIES FOR A SUSTAINABLE WORLD: BREAKTHROUGHS IN HEALTH, AGRICULTURE, AND INTELLIGENT INFRASTRUCTURE."



DAYANANDA SAGAR UNIVERSITY

School of Computer Applications

in association with

Department of Computer Science, School of Engineering

AICTE SPONSORED ATAL FACULTY DEVELOPMENT PROGRAMME

AI AND NEXT-GEN TECHNOLOGIES FOR A SUSTAINABLE WORLD: BREAKTHROUGHS IN HEALTH, AGRICULTURE, AND INTELLIGENT INFRASTRUCTURE

08-01-2025 to 11-01-2025

FDP SCHEDULE

Date & Time	Topic	Resource Person
08-01-2025 (Monday) 6:00 p.m. to 6:30 p.m.	Inaugural Session	Dr. Madhan Kumar Srinivasan (CEO & Co-founder, Wise Work; President & Co-founder, Hue Learn; Co-founder & CTO, DHAI World)
08-01-2025 (Monday) 6:30 p.m. to 8:00 p.m.	Technical Session – 1 Influence of Futuristic Tech in Global Sustainable Development	Dr. Madhan Kumar Srinivasan (CEO & Co-founder, Wise Work; President & Co-founder, Hue Learn; Co-founder & CTO, DHAI World)
08-01-2025 (Monday) 8:00 p.m. to 9:30 p.m.	Technical Session – 2 Technology for Agriculture	Dr. R. Rajesh (Professor (on lien)) Department of Computer Science, Central University of Kerala
07-01-2025 (Tuesday) 6:00 p.m. to 7:30 p.m.	Technical Session – 3 Reliable AI Algorithms for Predictive Healthcare Analytics	Dr. Nilanjan Dey (Associate Professor, Techno International New Town, Kolkata)
07-01-2025 (Tuesday) 7:30 p.m. to 9:00 p.m.	Technical Session – 4 Smart and Sustainable Technologies for Rural and Tribal Development Using IoT & Cloud Computing	Dr. Srikanta Patnaik (Director & Chairman, IIMT, Bhubaneswar)
08-01-2025 (Wednesday) 6:00 p.m. to 7:30 p.m.	Technical Session – 5 Edge AI for Digitally-Transformed Enterprises	Dr. Pethuru Raj (Chief Architect and Vice President, Edge AI Division, Reliance Jio Platforms Ltd.)
08-01-2025 (Wednesday) 7:30 p.m. to 9:00 p.m.	Technical Session – 6 AI applications in agriculture for sustainable development – research opportunities	Dr. J. B. Simha (Chief Technology Officer, Alokra Systems, Bengaluru)
09-01-2025 (Thursday) 6:00 p.m. to 7:30 p.m.	Technical Session – 7 Robust Decision Agents in Uncertain Environments: From Healthcare to Cloud Platforms	Dr. Mayukh Das (Senior Research Scientist, MSR, Research, Microsoft)
09-01-2025 (Thursday) 7:30 p.m. to 9:00 p.m.	Technical Session – 8 Assisting harvesting through AI-based ripeness recognition	Dr. Seyed M Buhari (Associate Professor, School of Business, Universiti Teknologi Brunei (UTB), Brunei Darussalam)
10-01-2025 (Friday) 6:00 p.m. to 7:30 p.m.	Technical Session – 9 Cybersecurity in Precision Healthcare	Mr. Kamal Sharma (Co-Founder Authentic8One Cybersecurity Pvt Ltd)
10-01-2025 (Friday) 7:30 p.m. to 9:00 p.m.	Technical Session – 10 Exploring medical data inference through GenAI and beyond!	Mr. Sunil Kumar (Founder CEO, Core Labs, Co-chair – TOC, Open Source Eco System & Technology Directors, SODA Foundation)
11-01-2025 (Saturday) 2:00 p.m. to 3:30 p.m.	Technical Session – 11 Recent Developments in Deep Learning for Healthcare System	Dr. B H Shekar (Professor, Department of Computer Science, Mangalore University, Mangalagangotri)
11-01-2025 (Saturday) 3:30 p.m. to 5:00 p.m.	Technical Session – 12 Leveraging Geoai for Enhanced Crop Management & Precision Farming: Revolutionizing Agriculture through AI Innovation	Dr. Ambika Paranthaman (Senior Data Scientist, Synectics plc United Kingdom)
11-01-2025 (Saturday) 5:00 p.m. to 6:30 p.m.	Technical Session – 13 Transformative Role of AI Algorithms in Healthcare	Dr. Arun Kumar Thangavelu (Senior Professor, School of Computer Science & Engineering, VIT University, Vellore)
11-01-2025 (Saturday) 6:30 p.m. to 8:00 p.m.	Online test, Feedback & Valedictory Session	

For any details Contact: Chief Coordinator Dr. S. Senthil Professor & Dean, SCA, DSU — Co Coordinator Dr. G. Sandhya Madhuri Asst. Professor, SCA, DSU

This program is a collaborative endeavour by the School of Computer Applications and the Department of Computer Science and Engineering, School of Engineering, and is generously supported by AICTE-ATAL from 6-01-2025 to 11-01-2025.
This program welcome notes was delivered by Dr. Udaya Kumar Reddy K R, Dean SoE, DSU Followed by Presidential addressing by our beloved Vice Chancellor, Dr. Amit Bhatt, DSU and Finally vote of thanks by Dr. Girisha G S, Professor & Chairperson CSE,DSU.

This program aims to equip faculty members with the knowledge and insights necessary to integrate these advancements into their teaching and research, thereby fostering innovation and addressing global challenges. The FDP attracted more than 170 participants.

This comprehensive faculty development program unleashed the transformative power of artificial intelligence, machine learning, and advanced technologies to tackle pressing global challenges. Participants explored cutting-edge innovations in healthcare, agriculture, and infrastructure, discovering how AI is revolutionizing these fields.

The FDP boasts an impressive lineup of resource persons, comprising both renowned academics and industry experts. Our speakers are well-experienced in their respective domains, having made significant contributions to the fields of AI, machine learning, and next-gen technologies. Through their expertise, participants will gain valuable insights into the practical applications and future directions of these technologies.

Day 1: The FDP began with Dr. Madan Kumar Srinivasan's keynote address, followed by a discussion on the impact of futuristic technologies on global sustainable development.
Day 2: The focus shifted to smart and sustainable technologies, specifically exploring their applications in rural and tribal development, with an emphasis on IoT and cloud computing.
Day 3: The program delved into AI applications in agriculture, exploring research opportunities for sustainable development.
Day 4: Participants learned about robust decision-making agents in uncertain environments, drawing insights from both healthcare and cloud platforms.
Day 5: The program explored cybersecurity in the context of precision healthcare and discussed the latest advancements in deep learning for healthcare systems.
Day 6: The final day featured a discussion on leveraging generative AI to enhance crop management and precision farming, culminating in a valedictory session.

The programme received a positive response from all the participants. As per the feedback submitted by the participants, they have appreciated the resource persons and flow of the contents of the programme. Each participant expressed their satisfaction, in the discussions with the rich experienced, resource persons brought to the FDP. During the feedback session on the last day, many participants appreciated the organizers and the support provided by them.

FACULTY DEVELOPMENT PROGRAM ON EMBEDDED SYSTEM DESIGN USING ARM CORTEX

The Faculty Development Program on Embedded System Design using ARM Cortex was held over five days from 03-02-2025 to 07-02-2025. The event aimed to equip faculty and students with a strong foundation in embedded systems, focusing on both theoretical concepts and hands-on applications.

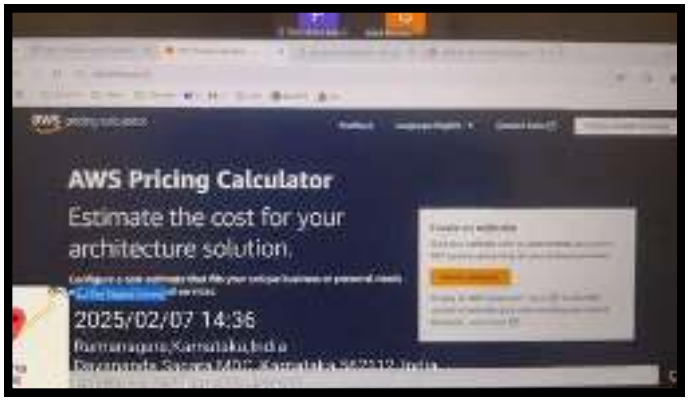
It covered hardware-software integration, real-time operating systems (RTOS), communication interfaces, and debugging tools essential for embedded development. Participants gained practical exposure to Embedded C programming, sensor interfacing, and real-world use cases in industries like automotive, healthcare, and IoT. This session helped enhance their technical expertise and problem-solving skills, preparing them for future advancements in embedded technology.. The trainers Mr. Vishnu and Mr. Sridhar from Learnfella Technologies have engaged in the training sessions.
Participants: 55 faculty members from the Computer Science and Engineering cluster, 8 students, 2 faculty members from other departments.

Faculty Coordinators
Dr. Chetan V. Sagarnal Assistant Professor, CSE
Dr. Arunkumar Gopu, Associate Professor, CSE
Dr. Naresh P. Assistant Professor,CSE
Prof. Priyanka S Marellavar, Assistant Professor, CSE
Keynote Speakers:
· Mr. Sunil T Shambhatnavar CEO - Advanced Electronic Systems & Solutions, Bangalore

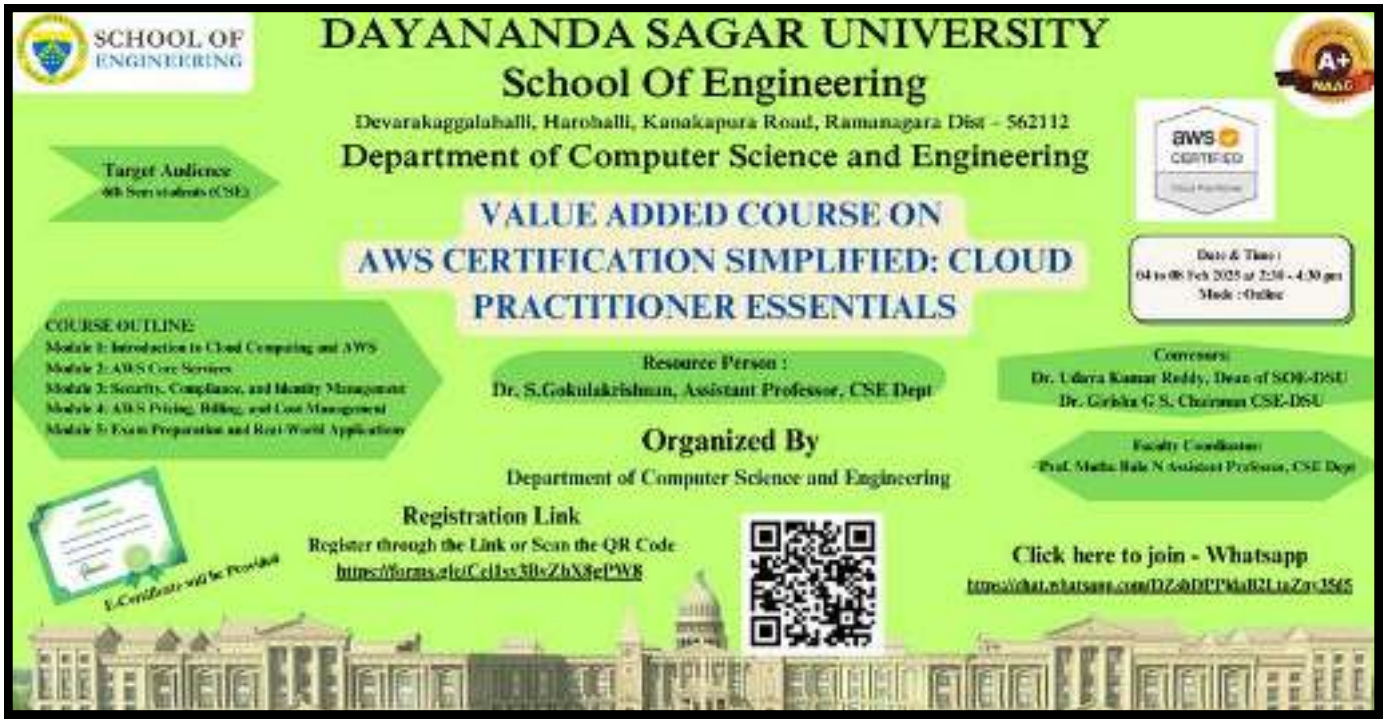
Resource Persons:

- Dr Ravichandra Kulkarni Dean R & D - Maharaja Institute of Technology, Mysore.
- Dr. Sharada M Kori Associate Professor, CSE, KLSGIT, Belagavi.
- Dr Vijaylakshmi Jigajinni Assistant Professor, ECE, BEC, Bagalkote.
- Mr. Arun Badiger Embedded Software Engineer, Tessolve Semiconductor Pvt Ltd, Bangalore.

VALUE ADDED COURSE ON AWS CERTIFICATION SIMPLIFIED: CLOUD PRACTITIONER ESSENTIALS



The value-added course on "AWS Certification Simplified: Cloud Practitioner Essentials" was successfully conducted from 4th Feb to 8th Feb 2025, from 02:30 PM onwards in the online mode. The workshop was organized by the Department of CSE for 30 hrs. of time. The resource person for the program was Dr. S. Gokulakrishnan and the faculty coordinator Prof. Muthu Bala N.



The workshop was structured into five sections: Introduction to Cloud Computing and AWS. In AWS Core Services, Compute Services, Storage Services, Database Services, Networking. Security, Compliance, and Identity Management. AWS Pricing, Billing, and Cost Management. Exam Preparation and Real-World Applications were discussed. Each session included a presentation, followed by interactive case study and Hands on sessions were discussed. The participants were encouraged to participate actively and asked questions throughout the session.

The main objective of the workshop was to make the participants have a good understanding about the AWS Certification Simplified: Cloud Practitioner Essentials and the various tools to promote the AWS in gaining experience and to become a competitor in the field of AWS. This value-added course gives the inputs to become an entrepreneur.

The value-added course was attended by a total of 200 individuals, including 1 organizer and 2 volunteers who helped with various aspects of the event, such as registration, set up and other technical issues of participants.

Coordinator: Prof. Muthu Bala N

Volunteers: Krishna rajesh, Sangamesh

ORIENTATION PROGRAM
"4TH SEM CSE"






The Department of Computer Science & Engineering conducted orientation sessions for 4th-semester students on 10th February 2025. The orientation started with Vision and Mission of the department, then general information about the semester and the Course objectives syllabus and course outcomes, how the entire semester would be working activities and also the importance of the curriculum, and importance of attendance, informing about university regulations, discipline, mentoring, DO'S, and DON'TS. Then gave complete insight about placements, NBA, NAAC and department Clubs and also mentioned the involvement of the students in the departmental activity.

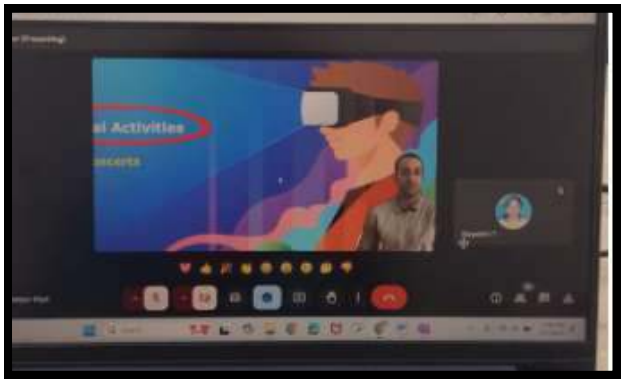
ORIENTATION PROGRAM
"6TH SEM CSE"




The Department of Computer Science & Engineering has conducted an orientation program for 6th semester students on 11th February 2025 for all 9 sections in their allotted classroom by class advisors. In this program class advisors explained about

- Department Vision and Mission
- Class Time Table, Scheme and syllabus
- Courses
- Time Table
- CIE and SEE marks division 60:40
- Department Hierarchy
- Class committee
- Importance of Attendance
- Class Discipline
- Mentoring activities
- Placement activities-Upcoming Competition and internships.
- Examination activities
- Permission for taking IA-Retest
- NAAC, NBA.
- Department clubs
- WhatsApp groups, Google mail IDs, and Google Classrooms

VALUE ADDED COURSE-WEB 3.0



The value added course on WEB 3.0 was successfully conducted from 3rd Feb to 7th Feb 2025 from 3:00 PM onwards in the online mode. The workshop was organized by the Department of CSE for 30 Hrs. of time. The resource person for the program was Dr. A. Senthil Kumar, Dr. Bipin Kumar Rai and the faculty coordinator Dr. T Gayathri.

The workshop was structured into four sections: : Evolution of the Web , Features of Web 3.0, DeFi, NFT, Metaverse and DAOs, Implementation of Web 3.0 at the end of this course, students would be able to:

· Identify the core characteristics of Web 3.0, such as decentralization, trustlessness, interoperability, and enhanced privacy.

· Gain valuable skills and knowledge that can open up new career opportunities in the fields of Blockchain development, decentralized finance, and Web 3.0 applications.

· Gain hands-on experience with essential Web 3.0 tools, including Decentralized wallets.

The value added course was attended by a total of 160 individuals, including 1 organizer and 2 resource persons.

Faculty Coordinator: Dr. T. Gayathri

EXTENSION/OUTREACH ACTIVITY AWARENESS PROGRAM ON ELEPHANTIASIS IN T.HOSAHALLI VILLAGE - NSS ACTIVITY


On 14th February 2025, the NSS student volunteers of Dayananda Sagar University conducted an awareness program on Elephantiasis (Lymphatic Filariasis) in T. Hosahalli village, Karnataka. The primary aim of this initiative was to educate the local community on the causes, symptoms, preventive measures, and treatment options for this disease, which is a major public health concern in many rural areas.

Program Highlights

The event began with a welcome address by the NSS program coordinator, who emphasized the importance of raising awareness about Elephantiasis. The volunteers conducted informative sessions covering:

- The transmission of Elephantiasis through mosquito bites.
- Symptoms such as swelling of limbs, fever, and skin thickening.
- Preventive measures, including maintaining cleanliness, using mosquito nets, and early medical intervention.
- Government initiatives such as Mass Drug Administration (MDA) to control the disease.

A health check-up camp was also organized in collaboration with local healthcare professionals, where villagers were screened for early signs of the disease and provided necessary guidance.

Community Engagement

The villagers actively participated in the session, asking questions and sharing their concerns. The NSS volunteers addressed misconceptions and demonstrated practical

steps to reduce mosquito breeding in the area. Posters, pamphlets, and video presentations were used to make the session interactive and impactful.

Organized by: NSS Student Volunteers, Dayananda Sagar University

Date: 14th February 2025

Venue: T. Hosahalli Village, and Paduvanagere Village, Karnataka

INDUSTRIAL VISIT "ISRO-URSC BENGALURU"

On 17th February 2025, faculty members and students from the CSE Department had the opportunity to visit the UR Rao Satellite Centre (URSC) in Bangalore, a leading facility for satellite development and space research in India. The visit provided an insightful look into the various stages of satellite development, from initial design and manufacturing to final launch preparations.

An expert at the exhibition guided us through a detailed session, explaining the role of India's national leaders and scientists in shaping the space program. We were also shown an informative audio-visual presentation on ISRO's Chandrayaan mission, which highlighted the challenges faced and the innovative solutions implemented by ISRO. Additionally, she provided an overview of ISRO's upcoming space missions and advancements in satellite technology.

ORGANISERS:

Dr. Gopalsharma R Joshi, Professor, Space Research & CSE Dr. Rajesh TM, Associate Professor, CSE

Dr. Renuka Devi M N, Assistant Professor, CSE

Faculties Visited:

1) Dr. Rajesh TM
2) Dr. Renuka Devi M N
3) Dr. Praveen Kulkarni

TEAM FROM E-CELL SOE DSU ATTENDED E-SUMMIT 2025 ORGANIZED BY IIT MADRAS

Team E-Cell DSU attended E-Summit 2025 organized by IIT MADRAS from 28/02/2025 to 02/03/2025. They were invited to EDD Conference and along with this they participated in various events such as ENIGMA - The final equation, Designblitz, Investinder and Kaala Quest. Also the Team E-Cell got an investment offer from Speciale Invest and Campus Fund. It was a great opportunity to network and explore.

SERVICENOW PLACEMENT TRAINING

ServiceNow Placement Training conducted by Placement Cell, DSU was held from 4th March, 2025 to 6th March, 2025 at the LH 2 ‘A Block’ Ground Floor SOE from 9:00 AM to 4:20 PM by Dr. Revathi V, Associate Professor, Dept. of Computer Science and Engineering.

Scripting in ServiceNow Fundamentals course is a comprehensive three-day training program designed to equip participants with the essential skills required to effectively manage and configure the ServiceNow platform. To bridge the gap between training and employment, ServiceNow collaborates with global and regional placement partners. These partnerships are committed to training individuals in ServiceNow skills as part of the "RiseUp with ServiceNow" initiative. This initiative aims to create opportunities for individuals to develop relevant skills and secure employment in the IT service management industry.

Around 22 students attended the event.

Course Overview:

In this module the following topics were covered.

Scripting Overview, Client Scripts, UI Policies, Business Rules, GlideSystem, GlideRecord, Script Includes, Flow Designer Scripting and javascript overview. Learn how to utilize the ServiceNow JavaScript API by attending Scripting in ServiceNow Fundamentals.Utilize ServiceNow's extensibility by altering an instance's default behaviour or adding new capabilities.Beginning with client-side scripting, this course moves on to server-side scripting. Using pertinent, real-world lab assignments, participants create, test, and debug scripts. In addition to lectures and discussions, the course includes plenty of hands-on practice and lecture reinforcement offered through a range of lab activities.Participants in this interactive training session run scripting operations on their own instance of the class.The chance to practice and gain confidence in both client-side and server-side scripting is presented by this.

Upon completing the course, participants are eligible to take the ServiceNow Certified Application Developer(CAD) exam. This certification validates their proficiency in ServiceNow system administration and serves as a foundational credential for advanced certifications.

ALUMNI TALK – "APPLICATION OF SATELLITE IMAGE PROCESSING"

The Alumni Talk organized by Department of Computer Science and Engineering and VIVA club on 06/03/2025 featured esteemed alumni Shrusti B. Yalgudri and Sumukh Sankarshana M, who shared their inspiring career journeys.

The session was warmly inaugurated by Dr. Rajesh T.M., who highlighted their significant contributions to research and innovation.

During the talk, Shrusti and Sumukh reflected on their early days at DSU University, admitting that research was not initially their passion. However, their perspective shifted in the second year when they worked on the project "Satellite Image Processing" . This experience made them realize the real-world impact of research and its potential to push the boundaries of knowledge.

They also discussed how their research experience shaped their careers, particularly through their internship at NIAS Bangalore, where they effectively used the QGIS tool for geospatial analysis. Their journey underscored the importance of hands-on research and its role in professional growth.

Dr. Girisha G.S., Chairperson of the CSE Department, also addressed the participants, appreciating the alumni's contributions to the department. He highlighted how their research work and professional achievements have added value to the institution, inspiring current students to explore research-driven learning.

Target Audience: 5th Sem, 4th sem Students - Dept of CSE

Resource Person
Name: Shrusti B Yalgudri,
Current Position: Data Scientist at ALTAIR
Education: B.Tech in Computer Science, Dayananda Sagar University
Expertise: Specializing in Data Science

Name: Sumukh Sankarshana M
Current Position: ML Engineer at IRON MOUTAIN
Education: B.Tech in Computer Science, Dayananda Sagar University
Expertise: Specializing in AI/ML
Faculty Coordinators
Dr. Rajesh T M, Associate Professor, Department of CSE
Dr. Renukadevi M N, Assistant Professor, Department of CSE
Dr. Praveen Kulkarni, Associate Professor, Department of CSE

Alumni Coordinator
Dr.Gousia Thahniyath , Assistant Professor, Department of CSE

WOMEN'S DAY 2025 CELEBRATION

The Women's Day 2025 celebration in the CSE department on 8th March was a joyful and memorable event, dedicated to honouring the contributions and achievements of women. A special highlight of the celebration was the thoughtful gift exchange of customized keychains, chai mud cups, and Buddha statues for all lady faculty members and staff, making the celebration even more meaningful. The event left everyone with cherished memories and a renewed sense of appreciation.

The celebration aimed to honor womanhood, foster unity, and appreciate the contributions of women in academia. Adding a touch of elegance and solidarity, all women faculty members donned beautiful shades of purple, symbolizing dignity, resilience, and empowerment. As a heartfelt gesture, they exchanged gifts as tokens of love and appreciation, making the day even more special.

The event was filled with warmth, laughter, and a spirit of togetherness, strengthening the bond among colleagues. A special note of gratitude to our Dean, Dr. Udaya Kumar Reddy, and Department Chairperson, Dr. Girisha G.S., whose encouragement and support played a pivotal role in the success of the celebration.

Such initiatives not only celebrate the strength and achievements of women but also create an environment of encouragement, appreciation, and inclusivity, making the workplace more vibrant and inspiring.

SCHOLAR IN RESIDENCE PROGRAMME ON: INNOVATE, PUBLISH, AND SCALE: A 3-DAY IMMERSION IN ENTREPRENEURSHIP, RESEARCH, AND GLOBAL COLLABORATION

Immersion in Entrepreneurship, Research and Global Collaboration organized by Department of Computer Science and Engineering on March 5 , 2025 event started with an introduction to Starting up with an innovative product. Followed by a comparison of Entrepreneur and Technopreneur. A good example of perfecting Idli making machine was taken to elaborate the steps involved in product development

Why to start a company and how to do it.

How to ideally discuss ideas in a professional environment.

Objective:

Discuss the complete life cycle of a startup with Do's and Don'ts. Talk about failure and what it takes to become an ideal Entrepreneur.

Time : 10:40 AM to 12:35PM

Venue : LH-1 , ground floor , SOE block

Convenors:

Dr. Uday Kumar Reddy K R,

Dean SoE , DSU

Dr. Girisha G S

Professor and Chairman , CSE , SoE , DSU

E - Cell Mentor:

Dr. Sridhar S K

Associate Professor , Department of CSE , SoE , DSU

Audience:

E - Cell members and 6th sem students.

Outcome:

Able to understand steps involved in starting a company.Get a broader understanding of startups.

SEMINAR ON RESEARCH ARTICLE WRITING, RESEARCH PROPOSAL WRITING, AND GLOBAL COLLABORATION

A seminar on "Research Article Writing, Research Proposal Writing, and Global Collaboration" was conducted on the 5th of March 2025 by Prof. Kalaivani Chellappan from Kebangsaan University, Malaysia in collaboration with Dept. of International Affairs and Dept. of CSE. The session was aimed at providing insights into effective research writing techniques, the formulation of impactful problem statements, and fostering global research collaborations.

Key Highlights of the Seminar

Prof. Kalaivani emphasized the importance of defining a clear and compelling problem statement in research. She discussed various strategies for identifying research gaps and ensuring that the problem statement aligns with current global challenges. She highlighted that a well-structured problem statement should be specific, measurable, and relevant to the chosen domain.

One of the significant aspects discussed was the conversion of research ideas into mathematical models. The speaker explained how abstract ideas and real-world problems can be translated into mathematical representations for better analysis and validation. She provided examples of modeling approaches in the medical domain.

Another crucial point discussed was the formation of research teams for projects in the medical domain. The speaker stressed the importance of interdisciplinary collaboration, bringing together experts from various fields such as medicine, engineering, and data science. Prof Kalaivani encouraged researchers to engage in global collaborations for broader knowledge sharing and resource utilization.

The seminar was highly informative and provided valuable guidance on different aspects of research writing and collaboration. Attendees gained practical knowledge on structuring research articles, writing effective proposals, and forming research teams for interdisciplinary projects. The session concluded with an interactive Q&A, where participants had the opportunity to discuss their research challenges and seek advice from the expert.

INDUSTRY VISIT TO NOKIA: EXPERIENTIAL LEARNING VISIT

The 4th and 6th semester students of CSE, SOE Dayananda Sagar University (DSU) had an enriching Experiential Learning Visit to Nokia Bangalore on March 18, 2025. The visit aimed to bridge the gap between theoretical knowledge and real-world industry applications in telecommunications, 5G technology, and network security.

Students participated in interactive sessions, lab demonstrations, and hands-on activities led by industry experts.

Key highlights included:

- Evolution of Networks (2G to 5G) – Insights into the rapid advancements in mobile communication.
- Lab Demonstrations – A first-hand experience with 5G base stations, network infrastructure, and real-time signal processing.
- OSI Model & Telecom Security – A deep dive into network layers, cybersecurity challenges, and gNB (Next-Generation Node B) architecture.

The visit provided valuable industry exposure, helping students understand emerging telecom technologies and their applications. The engaging discussions and practical insights made this visit a memorable and career-enhancing experience.

The students were accompanied by the NBUC SPOC Dr. Sivananda Lahari Reddy, Associate Professor in CSE department and Prof. Santhosh M, Assistant Professor in CSE department.

DSU remains committed to fostering experiential learning initiatives to prepare students for cutting-edge careers in technology and innovation.

CLUB ACTIVITY - INAUGRATION OF MAAYANIC, A GAME DEVELOPMENT AND ANIMATION CLUB

The Maayanic Club, a Game Development and Animation Club, was officially inaugurated on 26/03/2025 by the Department of Computer Science and Engineering. The event featured an inspiring talk by Ms. Deepanjali Sarna, a Game Designer at Zynga and a prominent industry leader.

The session was inaugurated by Dr. Praveen Kulkarni, who praised the initiative of starting a dedicated platform for aspiring game developers and animators. He emphasized the importance of creativity, innovation, and hands-on learning in the field of game development.

During her talk, Ms.Deepanjali Sarna shared her remarkable career journey, highlighting her experiences at Zynga and her contributions as a Studio Lead at zPride. She also spoke about her role as a Women in Games Ambassador and her involvement in organizing the Global Game Jam in Bangalore.

The speaker introduced students to various aspects of game development, including game design, art and animation, technical art, UX design, and sound design. She emphasized the importance of contributing to game jams, building small prototypes, and participating in open-source projects to gain practical experience. Ms. Sarna also provided insights into industry tools such as Unity, Unreal Engine, Blender, and Maya.

Additionally, she discussed the significance of effective time management, teamwork, and iterative development in the game creation process. Her practical tips on portfolio building and engaging with gaming communities resonated strongly with the students.

Dr. Girisha G.S., Chairperson of the CSE Department, expressed his gratitude to Ms. Sarna for her invaluable insights. He encouraged students to make the most of the Maayanic Club as a collaborative platform for learning and innovation.

The session concluded with an engaging Q&A segment, where students explored topics like game testing, sound design, and community management. The event left students feeling inspired and motivated to explore the exciting world of game development and animation.

Overall, the inaugural event of Maayanic Club marked a successful beginning, fostering enthusiasm and curiosity among students. The club promises to be a hub for creative expression and technical growth, encouraging participants to transform their gaming passions into professional aspirations.

Faculty Coordinators:

Dr. Praveen Kulkarni, Associate Professor, Department of CSE

Dr. Rajesh T M, Associate Professor, Department of CSE

Prof.Shilpa Sudheendran Assistant Professor,Department of CSE

Prof. Prolay Biswas Assistant Professor, Department of CSE

Prof. Bharath B Assistant Professor, Department of CSE

Student Coordinators:

Shishir Chandra V

Tejas K M

Sriram Puranik

Shanvi Mishra

Subrath Shrotriya

CULB ACTIVITY - PHOTOGRAPHY WORKSHOP

The Le Gras Boulevard Photography Club at Dayananda Sagar University successfully organized an exclusive Photography Workshop featuring renowned wildlife photographer and mentor, Harsha Narasimhamurthy held on 14.03.2025. The event was designed to provide students with a deeper understanding of photography techniques, storytelling through images, and real-world experiences from an industry expert.

The workshop began with registrations and entry, where volunteers facilitated check-ins and guided attendees. The event officially commenced with emcees Avani Deshpande and Catherine Babu, who welcomed the audience and introduced esteemed dignitaries, including Dr. Girisha G S (Chairperson, Dept. of Computer Science & Engineering), Dr. Vinayak B Hemadri (Chairperson, Dept. of Mechanical Engineering), and Dr. Jayavrinda Vrindavanam V (Chairperson, Dept. of Computer Science & Engineering - AI & ML), alongside other faculty members.

To set the ambiance, Avani delivered a captivating musical performance. Student coordinator Rishi Rohan then introduced Le Gras Boulevard Photography Club, emphasizing its mission to nurture creativity at DSU. This was followed by an address from university officials, highlighting the significance of photography as a form of storytelling and self-expression.

A student photography showcase featured remarkable works from DSU students, setting the stage for the main session. The highlight of the event was the photography workshop by Harsha Narasimhamurthy, where he shared invaluable insights into wildlife photography techniques, composition, lighting & storytelling.

Conveners:
Dr. D. Hemachandra Sagar Chancellor, DSU
Dr. D. Premachandra Sagar Pro-Chancellor, DSU Dr. Amit Bhatt Vice Chancellor In Charge, DSU Dr. Puttamadappa C Registrar, DSU
Dr. Udaya Kumar Reddy Dean, SOE, DSU
Dr. Ramesh R Galigekere Dean (Acad) Science & Technology
Dr. Kousalya Govardhanan Dean (R&D) Dr. Girisha G S, Chairperson CSE, DSU

Coordinators:
Prof. Arjun Krishnamurthy, CSE, DSU Prof. Vishwas DB, CSE, DSU
Prof. K Sudha Deepthi, Bosch Rexroth Mr. Likith Neeraj Reddy, CY, DSU
Mr. Harsh Manalel, AIML, DSU Mr. Rishi Rohan, CSE, DSU

Volunteers:
Emcees: Avani Deshpande, Catherine Babu
Logistics & Registrations: Darshan G Valishettar, Chiranth K, Adwaitha Rama, Vivan Rajiv Yenagimath, Aditya S Hegde
Photography, Videography & Design: Bharat Karigoudar, Prajwal A Sindagi, Karthik S S, Viteshram Gokarakonda
Crowd Management & Coordination: Sarath Chowdary, Furkhan, Muzammil, Kedharnadh, Zakriya

THE ENTREPRENEURSHIP-CELL AND TATA ELXSI PROJECT ALIGNMENT MEET

It is a great pleasure that we, the Entrepreneurship cell, DSU had a business meet with Mr. Vigneswaran, Delivery manager, Tata Elxsi. Held on 28th MAR 2025 @ Board Room, DSU Main Campus.

Received valuable insights on how Tata Elxsi can assist our student startups and the necessary steps to be followed in order to get the project work done systematically.

Dr. Sridhar S K, E-Cell Coordinator expressed the special thanks to Dr. Girisha G S and Dr. Basavaraj N Hiremath for the great support in executing the same.

EXTENSION/OUTREACH ACTIVITY - WALKATHON TO RAISE AWARENESS ABOUT HEALTH, EDUCATION, AND DISASTER RELIEF

On March 12, 2025, the Red Cross Organization hosted a Walkathon under the theme "Walk for Humanity", starting from Bangalore University Jnana Bharathi Auditorium and concluding at Kanteerava Stadium. The event aimed to raise awareness about health, education, and disaster relief while promoting unity and social responsibility. 20 Students of 6th Semester from the Department of Computer Science and Engineering (CSE) attended and shown their support for the humanitarian cause.

DAYANANDA SAGAR UNIVERSITY

ARTICLE

HYPER-ACCELERATED COMPUTING: POWERING THE NEXT GENERATION OF AI

We are in the era of accelerated computing, which has laid the foundation for advanced AI. At the NVIDIA GTC AI Conference (March 17-21, 2025), NVIDIA CEO Jensen Huang highlighted the importance of hyper-accelerated computing to meet the demands of next-generation AI, particularly in Agentic AI and Physical AI.

Agentic AI – AI systems that leverage sophisticated reasoning and iterative planning to autonomously solve complex, multi-step problems. These systems follow a four-step process: Perceive, Reason, Act, and Learn, enabling highly adaptive decision-making.

Physical AI – AI that is embodied in physical systems, allowing them to interact with the real world through sensing, reasoning, and actuation. These AI-driven robots and devices combine software intelligence with robotic hardware for autonomous or semi-autonomous task execution.

Among the several tools and platforms introduced at GTC 2025, the following are particularly noteworthy

- NVIDIA Isaac GR00T N1 – The world's first open, fully customizable foundation model for generalized humanoid reasoning and skills. Learn More: https://developer.nvidia.com/isaac/lab
- NVIDIA Cosmos World Foundation Models – A new platform enabling fully customizable reasoning models for Physical AI development, giving developers unprecedented control over world generation. Explore Cosmos: https://www.nvidia.com/en-us/ai/cosmos/
- Newton Open-Source Physics Engine – A cutting-edge physics simulation tool, developed in collaboration with Google DeepMind and Disney Research, to enhance robotics development. Discover Newton: https://developer.nvidia.com/blog/announcing-newton-an-open-source-physics-engine-for-robotics-simulation

With hyper-acceleration shaping the future of AI, these innovations pave the way for smarter, more capable AI-driven solutions across industries.

Prof. Sasikala Nagarajan
Assistant Professor
Department of CSE, SoE, DSU

AI EXCESSIVE REGULATION? KILL TRANSFORMATIVE INDUSTRY!

World Leaders at Action Artificial Intelligence Summit.
Courtesy: The Wire 11th Feb 2025

The summit highlighted the global consensus to arrive at a common Governance and standards for the emerging technology. But the US and UK declined to sign the agreement titled "Statement on inclusive and sustainable Artificial intelligence for people and planet". 61 countries signed the agreement including India, China and France.

The common Governance and standards includes six priorities:

Digital divide by Open AI, Inclusive, transparent, ethical, safe, secure and trustworthy.

This is a complex issue. The question of whether or not the interests of two tech giants supersede national interests raises concerns about ethical and responsible AI.

Ensuring confidence in AI technologies and mitigating the associated risks, particularly when considering products developed in different countries, such as specialized chips and AI systems designed for specific nations.

It also raises questions across globe that security and use of this technology in military and surveillance domain and storage of foreign data.

We hope there will be a global consensus happens in the 4th AI action summit as India is hosting the event later this year, the India's responsibility stands high as India is emerging and promoting ethical and sustainability for people and the planet relates to AI technology.

Collection and views by Dr Basavaraj N Hiremath, Professor, Department of CSE based on the event and news. 13th Feb 2025.

DAYANANDA SAGAR UNIVERSITY

FACULTY ACHIEVEMENTS

FACULTY ACHIEVEMENTS

Dr George Fernandez I, Associate Professor, Prof. Prolay Biswas, Prof. Yashaswini H C, Prof. Bharath M B, Prof. Sushma D S, Prof. Kavyashree I Pattan, Prof. Sumanth C M, Prof. Diana George, Prof. Benaka Santhosha S,Assistant Professors, Department of CSE, have successfully attended a six-day online Faculty Development Programme (FDP) sponsored by AICTE-ATAL from January 6th to 11th, 2025 organized by School of Computer Applications in association with the Department of Computer Science and Engineering, School of Engineering at Dayananda Sagar University, Bangalore on the title "AI and Next-Gen Technologies for a Sustainable World: Breakthroughs in Health, Agriculture, and Intelligent Infrastructure"

FACULTY ACHIEVEMENTS

Dr. Sivananda L Reddy, Associate Professor, Department of CSE has successfully presented the paper titled "Optimizing Latency and Communication in Federated Edge Computing with LAFEO and Gradient Compression for Real-Time Edge Analysis" in the 6th IEEE International Conference on Mobile Computing and Sustainable Informatics (ICMCSI 2025) organized by Purbanchal University, Nepal, during 7-8 January 2025

Dr. Sivananda L Reddy , Associate Professor, Department of CSE, has successfully participated in IP Awareness/Training program under National Intellectual property Awareness Mission on 15th January 2025.

Dr. Sivananda L Reddy , Associate Professor, Department of CSE, has successfully published a patent with the title "IoT-Integrated Irrigation Management System for Optimized Advancing Sustainable Agriculture" on 7th March 2025 with the Application No: 202541014506 A.

FACULTY ACHIEVEMENTS

Prof. Sasikala, Assistant Professor, Department of CSE has successfully served as a reviewer for 1 manuscript in the Springer Journal Discover Artificial Intelligence on 20th January 2025 and also served as a peer reviewer for IETE Journal Education for Taylor and francis group during January 2025.

Prof. Sasikala N, Assistant Professor, Department of CSE has successfully completed an online course in Kaggle with the title "Introduction to Machine Learning" on 25th January 2025.

Prof. Sasikala N, Assistant Professor, Department of CSE has successfully completed an online course in Kaggle with the title "Data Cleaning" on 9th February 2025.

Prof. Sasikala, Assistant Professor, Department of CSE has successfully served as a reviewer for 1 manuscript in the Springer Journal Discover Artificial Intelligence on 22nd February 2025.

FACULTY ACHIEVEMENTS

Prof. Sasikala, Assistant Professor, Department of CSE has successfully presented a paper titled "Using Machine Learning and Optimization Techniques to Assess and Enhance Engineering Student Employability" in the International Conference on "Computational Mathematics In the Era of Data Science and Artificial Intelligence", organized by Dayananda Sagar College of Engineering, Begaluru, during 21st and 22nd February 2025.

Prof. Sasikala N, Assistant Professor, Department of CSE has received a grant of ₹5,000 from the Indian National Academy of Engineering (INAE) under the 'Mentoring of Engineering Teachers by INAE Fellows/INAE Young Associates' program for the project titled 'Early Identification of Slow Learners in an Engineering Class.' The project was guided by Dr. C. P. Ravikumar, Adjunct Professor, Indian Institute of Information Technology, Ittigatti.

Prof. Sasikala N, Assistant Professor, Department of CSE has successfully served as a reviewer for 2 manuscripts in the Springer Journal Discover Artificial Intelligence on 19th and 24th March 2025.

FACULTY ACHIEVEMENTS




Prof. Bharath B and Prof. Sushma, Assistant Professors Department of CSE has successfully participated & completed AICTE Training And Learning (ATAL) Academy Faculty Development Program on "Cyber Security and Intrusion Detection Forensics" at DON BOSCO INSTITUTE OF TECHNOLOGY from 20/01/2025 to 25/01/2025.




Dr. Savitha Hiremath, Associate Professor, and Mrs. Kulkarni Manjusha Manikaro Research Scholar, Department of CSE successfully Presented a paper in the IEEE conference with the title, "Graph Representation Learning for Recommender Systems", in the IEEE International Students Conference SCEECS'25 Organized by MANIT Bhopal, India, held during January 18-19 2025.

FACULTY ACHIEVEMENTS

Dr. Tanvir Sardar, Associate Professor, Department of CSE has successfully participated & completed AICTE Training And Learning (ATAL) Academy Faculty Development Program on "Deep Learning Intelligent Video Analytics and Computer Vision" at P.A.COLLEGE OF ENGINEERING from 21/01/2025 to 27/01/2025.

Dr. Tanvir Sardar, Associate Professor, Department of CSE has published a book titled "Machine Learning Hybridization and optimization for Intelligent Applications" with the publisher CRC press Taylor and Francis group during January 2025.

Dr. Tanvir Sardar, Associate Professor, Department of CSE, his Research article with the title "MapReduce-enhanced Fuzzy K-Least Medians for Qualitative Clustering of Document Big data" is accepted for publication in the Wiley, SCIE and Scopus Q2 journal "Concurrency and Computation: Practice and Experience" , with 2.7 impact factor and H index 80 during February 2025.

FACULTY ACHIEVEMENTS

Dr. T Gayathri, Assistant Professor, Department of CSE has successfully Published IEEE scopus indexed conference paper with the title, "Bottom-Up Cracks Detection in Road Pavement in Artificial Neural Network" , in the 2024 First International Conference on Software, Systems and Information Technology (SSITCON) during January 2025.

Dr. T Gayathri, Assistant Professor, Department of CSE has successfully attended the Five-day Virtual Faculty Development Program on "Blockchain and AI: Transforming the Future with Decentralized Intelligence" organized by Department of Information Technology, Kamaraj College of Engineering and Technology from 20.01.2025 to 24.01.2025.

Dr. Basavaraj N Hiremath, Professor and Dr. Savitha Hiremath, Associate Professor, Department of CSE successfully Presented a paper in the Springer conference with the title, "Distractor Analytics on Multiple Choice Questions Using Large Language Models" , in the International Conference on Information Technology and Artificial Intelligence (ITAI-2025) Organized by Soft Computing Research Society and Gurugram University, Gurgon, Haryana, India, held during January 24-25 2025.

FACULTY ACHIEVEMENTS

Dr. T. Poongodi, Professor in the Department of CSE, chaired a special session entitled Recent Advancement of Deep Neural Networks in IoMT in the "International Conference on Pervasive Computational Technologies (ICPCT-2025)", organized by Department of Computer Science Engineering (AIML), GL Bajaj Institute of Technology and Management, Greater Noida, UP, India, held on 8th -9th February, 2025.

Dr. T. Poongodi, Professor in the Department of CSE, published an Edited Book entitled “Cyber Physical Energy Systems" with an International Publisher - John Wiley & Sons, Scrivener Publishing, Pages 1 - 533. ISBN:9781394172528.

Dr. T. Poongodi, Professor, Department of CSE, extended her service as a Session Chair during 2nd International Conference on Communication, Computer Sciences and Engineering (IC3SE-2025) held during 19th - 21st March 2025 Amity University, Greater Noida.

FACULTY ACHIEVEMENTS

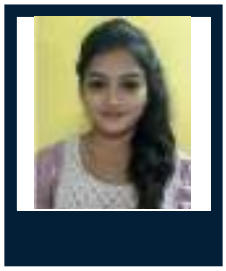













Dr. Revathi V, Associate Professor, Dr. T Gayathri, Prof. K Radhika, Prof. Muthu Bala N, Prof. Sowmya H. D, Prof. Sushma D S, Dr Gousia Thahniyath, Assistant Professors, Department of CSE has successfully participated & completed AICTE Training and Learning (ATAL) Academy Faculty Development Program on Next-Gen Innovation: AI, Blockchain and AR/VR Metaverse for Digital Excellence at Jain Deemed to be University School of Computer Applications and IT from 03/02/2025 to 08/02/2025.

FACULTY ACHIEVEMENTS

Dr. Bondu Venkateswarlu, Associate Professor and Mr. Subba Reddy Meruva esearch Scholar, Department of CSE, Successfully published a paper with the title "Dynamic Association Mining Techniques for the Faster Extraction of High Utility Itemsets from Incremental Databases" in the Scopus Indexed Q2 journal "Engineering, Technology & Applied Science Research (ETASR) Vol. 15, No. 1, during 2nd February 2025. https://doi.org/10.48084/etasr.9295.

Prof. Muthu Bala, Assistant Professor, Department of CSE has successfully completed the course on "Advanced Power BI Training" on Thursday, January 23, 2025 through online Infosys Springboard Platform.

Prof. Bharath M B, Assistant Professor, Department of CSE has successfully participated in 6 days National Level Faculty Development Program on "Recent Trends in Artificial Intelligence and Machine Learning" from 3rd to 8th February 2025 organized by Department of CSE(AI&ML), Global Academy of Technology, Bengaluru.

FACULTY ACHIEVEMENTS

Dr. Senthil Kumar, Dr. Poongodi T and Dr. Nixon J S, Professors, Department of CSE published a research paper in the IEEE Explore and indexed in the Scopus Database titled, "A Practical Approach for License Plate Recognition for Non-Helmeted Motorcycle Riders" presented in the 7th International Conference on Contemporary Computing and Informatics (IC3I-2024) Greater Noida, Delhi during February 2025.

Dr. Basavaraj N Hiremath, Professor, Department of CSE has successfully completed the Online One Week Advanced Faculty Development Program on "Empowering Research with High-Performance Computing and GPU Technologies" organized by Department of Computer Science & Engineering, RV College of Engineering, Bengaluru from 17th to 21st March, 2025.

FACULTY ACHIEVEMENTS

Dr. Bipin kumar Rai, Professor, Department of CSE has successfully completed online courses on the Infosys Springboard platform with the course titles "Introduction to Data Science" , "Introduction to Artificial Intelligence" and Computer Vision 101 during 17th, 19th and 22nd February 2025 respectively.

Dr.S.Gokulakrishnan, Assistant Professor, Department of CSE Successfully completed a online 20 hours AWS Academy Graduate - AWS Academy Cloud Foundations certificate during 22nd February 2025.

Dr Gokulakrishnan S, Assistant Professor, Department of CSE has successfully completed the online course on "AICTE Evaluated 10-Day Patent Analytics Course" , organized by Turnip Innovations and facilitated by Dr. Rahul Kapoor, during 12th to 21st March 2025.

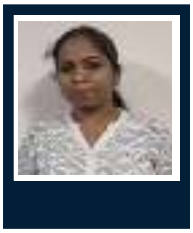
FACULTY ACHIEVEMENTS

Dr.S.Gokulakrishnan, Assistant Professor Department of Computer Science and Engineering Dayananda Sagar University, Bengaluru Published a book Chapter Entitled "Integrating Blockchain, Cryptography, and Hadoop for Scalable and Secure Big Data Solutions: A Multidisciplinary Perspective" in the Book titled "The Future of Multidisciplinary Research in Global Development" by the International Publisher Multi Spectrum Publications, with the ISBN: 978-81-986630-9-2 and Published during March 2025.

Prof. Shilpa Sudheendran and Prof. Sasikala N, Assistant Professors, Department of CSE has successfully participated & completed AICTE Training And Learning (ATAL) Academy Faculty Development Program on "Deep Learning and Computer Vision" in the Field of Clinical Research at Thiagarajar College of Engineering from 17/02/2025 to 22/02/2025.

Dr. Rajesh T M. Associate Professor, Department of CSE, has published an Indian patent with the title "Ai Based Framework for Analyzing and Optimizing Highway Route Construction Using Satellite Images" Applicant: Dr. Santosh Kumar Jankatti, Name of Inventor : Meenakshi, Research Scholar, Dayananda Sagar University, during 14th February 2025.

FACULTY ACHIEVEMENTS



FACULTY ACHIEVEMENTS

The above faculties from CSE department are successfully participated in the Faculty Training Session on " Software Engineering Using LLM's- Developing a Forecasting Solution" conducted on 12th March 2025 at Department of Computer Science & Engineering (Artificial Intelligence and Machine Learning), SOE, Dayananda Sagar University. This session was facilitated by Dr. J.B. Simha, CTO, Abiba Systems, Bengaluru, and focused on the transformative applications of Large Language Models (LLM'S) in Software engineering and forecasting solutions.
Dr. T. Poongodi, Professor, Dr. Natarajan Venkateswaran, Professor of Practice.
Dr. George Fernandez I, Dr. Savitha Hiremath, Dr. Meenakshi Malhotra, Dr. Sridhar S K, Dr.Revathi V, Dr. Sivananda Reddy, Associate Professors.
Dr. Gokula krishnan.S, Dr.Gousia Thahniyath, Prof. Sasikala N, Prof Bharath B, Prof. Vishwas DB, Assistant Professors.

Dr. Damodharan, Assistant Professor, Department of CSE has successfully attended two days workshop in the company called "EMATIX Embedded & Software Solutions Pvt Ltd!" in the name of "Next-Gen Embedded Systems Development workshop" from 18th and 19th February 2025.

Dr. Damodharan D, Assistant Professor, Department of CSE has successfully completed the 40 hours (3-Credits equivalent) Faculty Development Programme on "Quantum Technologies & Applications" , jointly organized by various Academies Electronics & ICT Academies MNIT Jaipur, NIT Patna, IIT Roorkee, IIT Guwahati, IIITDM Jabalpur, NIT Warangal from February 28 - March 22, 2025.

FACULTY ACHIEVEMENTS

Dr. George Fernandez I and Dr. Revathi V, Associate professors, extended their service as a session chair for the technical presentation session and contribution towards the successful organization of IEEE sponsored First International Conference on Frontier Technologies and Solutions (ICFTS 2025) held at St. Joseph's College of Engineering, Chennai, Tamil Nadu during 27th and 28th March 2025.

Dr Rajesh T M, Associate Professor, and Prof Shankramma S Dhavalagimath, Research Scholar, Dept of CSE, has published a paper titled "Advancements in Image Deblurring and Performance Metrics Using Deep Learning Technique" in the Springer Nature Lecture Notes in Networks and Systems, Proceedings of International Conference on Recent Trends in Computing, during March 2025. https://doi.org/10.1007/978-981-97-8836-1_12.

FACULTY ACHIEVEMENTS

Dr. Renuka Devi M N, Assistant Professor, Ms. Talupula Jahnavi (ENG22CS0478) and Mr Punith Amilineni (ENG22CS0399), 6th Semester students, Department of CSE has successfully presented a research article in the Springer nature International Conference on Advancements in Computing technologies and Artificial Intelligence (Computatia-2025) with the title "Analysis of Fruits and Vegetable conditions using Image Processing" organized by Vivekananda Global, University, Jaipur during 21st and 22nd February 2025.

Dr.Renukadevi M.N, Assistant Professor, Department of CSE has presented a paper at the IEEE International Conference on Interdisciplinary Approaches in Technology and Management for Social Innovation (IATMSI-2025), conference with the title "AttUNet:: Enhancing Re sUNet with Attention Mechanisms for Accurate Brain Tumor Segmentation", on 8th March 2025. organized by IEEE MP Section and ABV-IIITM Gwalior, India on 6-8 March 2025.

FACULTY ACHIEVEMENTS





Prof. Mala B A, Prof. Arpita Paria, Assistant Professors and Dr. George Fernandez I, Associate professor published a paper in the Scopus indexed journal GRENZE International Journal of Engineering and Technology (GIJET) during 26th February 2025 with the title "UDuctor: Enhanced Assistance and Monitoring of noncommunicable diseases using Pervasive Computing", presented in the Fifteenth International Conference on Advances in Engineering and Technology, AET 2024 Jointly organized by the IDES and Association of Computer Electrical Electronics and Communication Engineers (ACEECom) NCR, Delhi, India.



Dr. T Poongodi, Professor, and Dr. Natarajan Venkateswaran, Professor of Practice, Department of CSE, Dayananda Sagar University, are attended the Faculty Development Programme on "GenAI for Sequential Data: Speech, Language and More", organized by the Department of Information Technology, Sri Sivasubramaniya Nadar College of Engineering during 10th to 15th February 2025.



Dr. J. S Nixon, Dr. Senthil Kumar A, Professors, Department of CSE published a paper in the IEEE with the title "LoRaWANSecurity Framework to Mitigate DoS Attacks at the Gateway Level using Machine Learning", presented in the conference IEEE Pune Section International Conference (PuneCon) during February 2025.

FACULTY ACHIEVEMENTS

Prof. Naitik ST Assistant Professor, Department of CSE extended his service as a reviewer for the research papers submitted to the 2025 International Conference on Artificial Intelligence and Data Engineering (AIDE - 2025) held from February 06 to 07, 2025 at NMAM Institute of Technology, Nitte.

Dr. Revathi V, Associate Professor, Department of CSE, has participated in the National Conclave on "Gen AI in College Curriculum" on 8th March 2025, gaining insights into AI's impact on education and future-ready curriculum changes organized by Capabl India in collaboration with the Computer Society of India (CSI).

DAYANANDA SAGAR UNIVERSITY

STUDENT ACHIEVEMENTS

INTERNSHIP EXPERIENCE

Y JITENDRA VARMA
ENG21CS0483

During My Infosys Springboard Internship, I Worked on developing and optimizing On Online Food Ordering System applying Various software development and database Management techniques to enhance user experience and streamline the ordering Process I gained hands on experience with front end & back end Integration as well as working with Apl's to handle order Placements, payments and delivery tracking.

Beyond technical learning, I improved my time management by handle of multiple tasks efficiently and problem solving skills by identify and resolve issues related to user interface design, System performance and security measures It helped me improve my collaboration skills as I worked close with team members include of data privacy and Collaborative teamwork. This internship helped me to strengthened both my technical and professional skills, prepared me for real wild challenges.

INTERNSHIP EXPERIENCE

Yashas M
ENG21CS0485

During my Infosys Springboard internship, I worked on sentiment analysis and Text classification, applying machine learning and NLP techniques to analyze social media content. I implemented both unsupervised and supervised learning methods, enhancing my skills in text preprocessing, model evaluation, extracting data-driven insights, and handling unbalanced data effectively.

Beyond technical learning, I improved my time management by handling multiple tasks efficiently and gained exposure to professional ethics, including data privacy and collaborative teamwork.

This internship strengthened my technical and professional skills, preparing me for real-world challenges.

STUDENT ACHIEVEMENTS

Mr. Sameer S Katte (ENG22CS0148), Mr. Sai Shravan V (ENG22CS0144), Mr. Sriram Ravindra (ENG22CS0185) and Mr. Harshith GR (ENG22AM0021) has a team Papz participated and represented Dayananda Sagar University in a National level offline hackathon "Hack-A-League" conducted in Global Academy of Technology Bangalore conducted on 1st and 2nd February 2025. The team has secured 2nd place with a cash prize of Rs. 15000 and also achieved the highest reward for a team from Karnataka.

Mr. Nithin Kataria V (ENG24CS0151), Mr. D A Ajay(ENG24CS0052) and Ms. Garima (ENG24CY0105) 2nd sem CSE students as a team participated in Kala Quest competition held at IIT Madras during 28th February 2025 and won the Runner Up (2nd Prize) of KalaQuest! prize money Rs. 8,000 on March 11th 2025 along with certificates.

STUDENT ACHIEVEMENTS

Mr. Kumar Ayush (ENG22CS0347), Mr. Meet Pandya (ENG22CS0363), Mr. Abhay Prakash Choubey (ENG22CS0221), Ms. Medha Sree Anand(ENG22CS0562), 6th semester CSE students secured fourth place in the Alliance 3.0 –Code Sangram Hackathon with a cash prize of Rs. 5000 under the mentorship of Prof. Shilpa Sudheendran, Assistant professor during 19th to 21st March 2025.

Mr. Veeresha R (ENG22CS204), 5th semester, Department of CSE successfully completed the Udemy course on “Learn JAVA Programming Beginner to Master” , on 8th February 2025 which is around 62 hours.

Mr. Shrinath Sonavale (ENG23CS0185), 3rd semester, Department of CSE successfully participated in the Devhack 6.0 in Parsec 5.0, The annual Technical Fest of IIT Dharwad during February 2025.

STUDENT ACHIEVEMENTS

Mr. Muzammil (ENG23CS0120), 4th semester CSE Student has successfully participated in the Photography Workshop conducted by Le Gras Boulevard Photography Club conducted by DSU on 14th March 2025.

Mr. Ram Charan G (ENG24CS1014), 2nd semester CSE student has Actively participated in National Science Day 2025 organized on 28th February 2025 by Department of basic Sciences, School of Engineering, DSU, Harohalli.

Mr. Shreyas H Reddy (ENG21CS0388), Mr. Shreyas Sridhar (ENG21CS0389), Mr. Shrinikethan S(ENG21CS0392), and Mr. Sanju John (ENG21CS0361), 8th semester CSE Students received funding of ₹6500 for the project titled “Emergency Traffic prioritization System(ETPS)” , under the guidance of Prof. Sasikala N, Assistant Professor, Department of CSE from J&J construction Benson Town, Bengaluru on 25th March 2025.

STUDENT ACHIEVEMENTS

Mr. Sourabh J Gor (ENG21CS0411), Ms. Vishnavi Ananya Gollapalli (ENG21CS0414), Mr. N Rishi Rohan (ENG21CS0256) and Mr. Tejas B (ENG21CS0446) 7th semester CSE Students, under the guidance of Prof. Vishwas D B, Assistant Professor, received a project funding of Rupees 8000/ from Klart Digi for the tilte " AI/ML Based Hardware Security for Edge Devices in IoT" on 6th January 2025.


Smart Cradle: A Secured Assistance and Monitoring System for Baby using IoT

Mr. Prajwal B R (ENG22CS0121) , Mr. Navtej S (ENG22CS0109), Mr. Nithin P Hegde (ENG22CS0113), Mr. Pavankumar P S (ENG22CS0117) and Mr. Pratham U K (ENG22CS0123), 5th semester CSE Students, under the guidance of Prof. Mala B A, Assistant Professor published IEEE conference paper titled "Smart Cradle: A Secured Assistance and Monitoring system for baby using IoT" in the 5th International Conference on IoT Based Control Networks and Intelligent Systems (ICICNIS 2024) during January 2025.

STUDENT ACHIEVEMENTS

Mr. Pranav Bawgikar (ENG21CS1015), Mr. K. J. Devaiah (ENG20CS0136), Mr. G. Yogdeep(ENG20CS0418), Students of CSE published a paper under the Guidance of Dr. V. Revathi, Associate Professor, with the title "Decentralized Healthcare Ledger System on Hedera with Deep Learning Analytics" , in the Springer book series Lecture Notes in Networks and Systems ((LNNS,volume 1144), with DOI https://doi.org/10.1007/978-981-97-7839-3_12, during 24th January 2025.

Mr. Varun P. Shrivathsa (ENG20CS0402), Mr. Girish Singh BS(ENG22CS3001) , Ms. Smriti Reddy (ENG20CS0388), Students of CSE, under the guidance of Dr. Rajesh T M, Associate Professor, Department of CSE, published IEEE conference paper titled "Environmental Impact Analysis using Satellite Image Processing: A Case Study on Bangalore STRR Phase-1" in the 2024 4th Asian Conference on Innovation in Technology (ASIANCON) Pune, India during January 2025.

STUDENT ACHIEVEMENTS

Mr. Tenzin Kalden (ENG22CS0485), 5th semester CSE student, Successfully participated in the Day2- 15th February 2025 in the Management:February Series Organized by the Unstop.

Mr. Nithesh G (ENG22CS0112), 5th semester CSE student, Successfully completed a online 20 hours AWS Academy Graduate - AWS Academy Cloud Foundations certificate during 12th February 2025.

Ms. Anitha N. (ENG21PCS02), Research Scholar, Department of Computer Science & Engineering, under the guidance of Dr. Rajesh T M, Associate Professor, and Dr. Anitha Kini, Department of Radiology, CDSIMER, successfully completed her Ph.D. Defence VIVA-VOCE entitled "An Automated Framework for Detection and Classification of Pulmonary Diseases in CT Scan Images" on Friday, 21st February 2025, from 10:00 AM to 11:00 PM in the CSE Lab-514, SOE, DSU, Harohalli, Bangalore-562112. She is also the first Ph.D. scholar produced in collaboration between DSU, SOE & CDSIMER.

STUDENT ACHIEVEMENTS

Mr. Manoj S (ENG21CS0222), Mr. Kiran Gangoor (ENG21CS0189) , Ms. Harshita S (ENG21CS0154), 8th Semester CSE Students, Dr. Girisha G S, Professor, Dr. George Fernandez I, Associate Professor, Prof. Pooja Shree H R, Assistant Professor, Department of CSE, has published an Indian patent with the title "FlameWatcher: Intelligent Gas Leak and Automatic Shutoff System" with the applicant name "Dayananda Sagar University" , during 21st February 2025.

Ms. D N Padmashri, Ms. Boomika B, Ms. Deepthi S V , Ms. B Saishree, 6th semester CSE students under the guidance of Prof. Suvika K V, Assistant Professor, published a paper in the Scopus indexed journal GRENZE International Journal of Engineering and Technology (GIJET) during 26th February 2025 with the title "Comparative Analysis of Machine Learning Algorithms for Enhanced Clinical Prediction of Fetal Health Status" , presented in the Fifteenth International Conference on Advances in Engineering and Technology, AET 2024 Jointly organized by the IDES and Association of Computer Electrical Electronics and Communication Engineers (ACEECom) NCR, Delhi, India.

STUDENT ACHIEVEMENTS

Mr. Bhupendar Kumawat (ENG21CS0078), Mr. Darshan D (ENG21CS0104), Mr. Gangadhara B (ENG21CS0136), 8th Semester CSE students under the guidance of Dr. Bondu Venkateswarlu, Associate Professor, published a paper in the Scopus indexed journal GRENZE International Journal of Engineering and Technology (GIJET) during 26th February 2025 with the title "Predictive Modelling of Infectious Diseases", presented in the Fifteenth International Conference on Advances in Engineering and Technology, AET 2024 Jointly organized by the IDES and Association of Computer Electrical Electronics and Communication Engineers (ACEECom) NCR, Delhi, India.

Mr. Pranav Vinod Pillai (ENG22CS0393), 6th semester CSE student has successfully participated in the IdeaVerse'25 hosted by the IEEE Information Theory Society (CSE-DS), Dayananda Sagar University on 20th February 2025.

STUDENT ACHIEVEMENTS

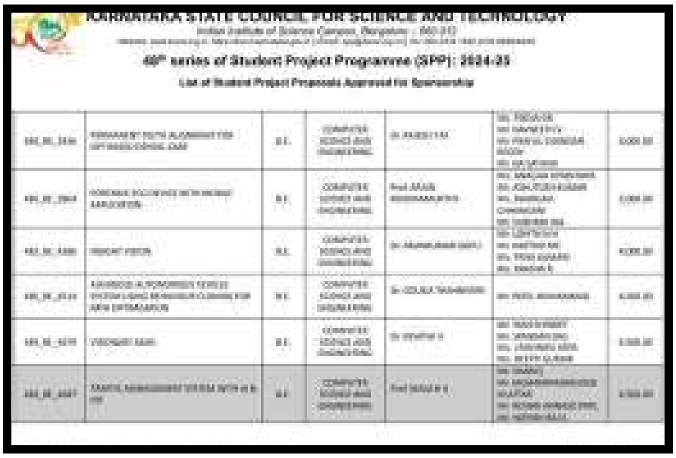
Ms. Smriti Eligar (ENG22CS0172), Mr. S.G Sumanth(ENG22CS0140) and Mr. Samarth Kushwaha (ENG22CS0147), 6th semester CSE students as a team "Innovation Forgers" has successfully participated and won 1st place with cash prize of worth 3k in the IdeaVerse'25 hosted by the IEEE Information Theory Society (CSE-DS), Dayananda Sagar University on 20th February 2025.

Mr. Mohammed Abdal Hussain(ENG23CS0112), Ms. Arpita Sahoo (ENG23CS0271), Ms. Vismitha H M (ENG23CS0226), Ms. Varshini Mallayya Guruvainavar (ENG23CS0215), Mr. Bhargav Thupalli (ENG23CS0283), Mr. Harshith Hegde (ENG23CS0320), Mr. Azeem Gundwan (ENG23CS0027), Mr. Mohammad Zakriya Hulkund (ENG23CS0111), Mr. Muzammil (ENG23CS0120), Mr. Mothe Abhinay Goud (ENG23CS0369), 4th semester CSE students have successfully participated in the AI Innovation Day: Bhasha Bandhu Ideathon on 25th February 2025, organized Department of CSE-AIML, DSU, SOE in collaboration with Microsoft and the Government of India's Bhashini Initiative.

STUDENT ACHIEVEMENTS

Mr. Harshith Hegde (ENG23CS0320), 4th semester CSE student has Actively participated in H4CKP13T 0x01 CTF, an International Capture The Flag (CTF) Competition, held on 27th February 2025 organized by H4CKP13T (Department of CSE Cybersecurity).

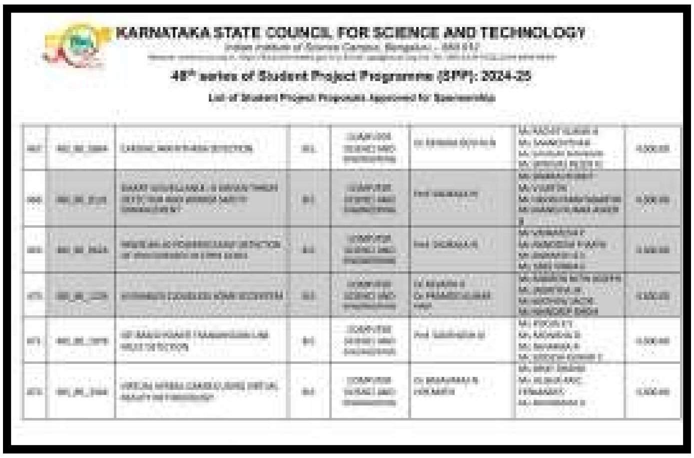
STUDENT ACHIEVEMENTS



KARNATAKA STATE COUNCIL FOR SCIENCE AND TECHNOLOGY

48th series of Student Project Programme (SPP): 2024-25

List of Student Project Proposals Approved for Sponsorship



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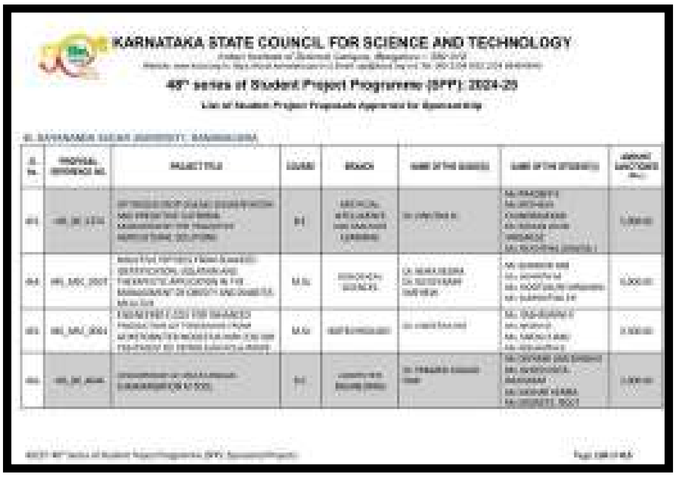

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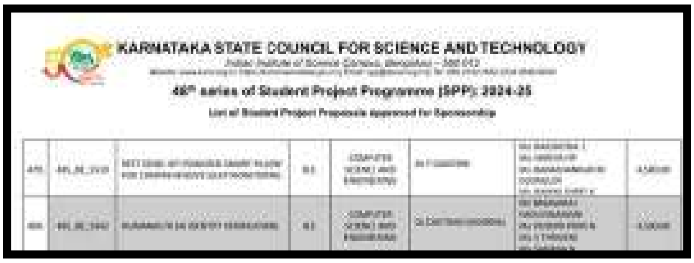

KARNATAKA STATE COUNCIL FOR SCIENCE AND TECHNOLOGY

48th series of Student Project Programme (SPP): 2024-25

List of Student Project Proposals Approved for Sponsorship

15 final year B.Tech projects from the CSE Department under the KSCST SPP Scheme 2024-25 (48th Series) received funding of Rs. 64,000/- on 14th March 2024

STUDENT ACHIEVEMENTS

Ms. Vaishnavi P (ENG21CS0459), Ms. Archana B S(ENG22CS1021), Ms. Preethi V(ENG21CS0458), 8th semester Students, Department of CSE presented a paper titled "Optimizing Diabetic Retinopathy screening with Machine Learning: A data-driven approach" , under the guidance of Dr. George Fernandez I, Associate Professor, Department of CSE and Dr. Dhathri, Assistant Professor, Department of Ophthalmology, CDSIMER in the IEEE sponsored First International Conference on Frontier Technologies and Solutions (ICFTS 2025) held at St. Joseph's College of Engineering, Chennai, Tamil Nadu during 27th and 28th March 2025.

STUDENT ACHIEVEMENTS

Mr. Mohammed Arif (ENG22CS1032), Mr. Sangamesh(ENG22CS1040), Mr. Rakesh P G(ENG22CS1037) and Mr. Yashwanth G M(ENG22CS1043), 8th semester Students, Department of CSE presented a paper titled "Smart management of Crop Monitoring Using Drone Technology" , under the guidance of Dr. George Fernandez I, Associate Professor, Department of CSE in the IEEE sponsored First International Conference on Frontier Technologies and Solutions (ICFTS 2025) held at St. Joseph's College of Engineering, Chennai, Tamil Nadu during 27th and 28th March 2025.

STUDENT ACHIEVEMENTS

Mr. Vijay Kumar K S (ENG21CS0474), Mr. Vividh Salankimatt (ENG21CS0481), Mr. Vivek D K (ENG21CS0480) and Mr. Yashas M (ENG21CS0485), 8th semester Students, Department of CSE presented a paper titled "Satellite based Geographical Poverty Prediction" , under the guidance of Dr. RenukaDevi M N, Assistant Professor, Department of CSE in the IEEE sponsored First International Conference on Frontier Technologies and Solutions (ICFTS 2025) held at St. Joseph's College of Engineering, Chennai, Tamil Nadu during 27th and 28th March 2025.

EDITORIAL COMMITTEE

Faculty Coordinators

Prof. Mala B A
Assistant Professor

Prof. Yashaswini H C
Assistant Professor

Prof. Sasikala N
Assistant Professor

Student Coordinators

Ms. D N Padmashri
3rd Year

Ms. Harini Sri S
3rd Year

Ms. Deepthi S V
3rd Year

PROGRAM OUTCOMES (PO'S)

PO1 - Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.

PO2 - Problem analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

PO3 - Design/development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.

PO4 - Conduct investigations of complex problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

PO5 - Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.

PO6 - The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.

PO7 - Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

PO8 - Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

PO9 - Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

PO10 - Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

PO11 - Project management and finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

PO12 - Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

PROGRAM EDUCATIONAL OBJECTIVES (PEO'S)

After few years of graduation, the graduates of Computer Science and Engineering will be able to:

PEO1: Apply appropriate theory, practices and tools in the design, implementation, maintenance and evaluation of computing in the work place or in higher education.

PEO2: Exhibit professional skills in solving challenging problems in their career and advance to leadership roles.

PEO3: Become effective innovator, researcher, and entrepreneur to provide technical solutions for socio-economic challenges.

PROGRAM SPECIFIC OUTCOMES (PSO'S)

Engineering Graduates will be able to:

PSO1: Design and Integrate software and hardware systems by following standard software engineering principles in the areas related to IOT, Cloud, Networks, Security, Embedded Systems, and Artificial Intelligence of varying complexity.

PSO2: Design and Implement application software systems by applying the concepts of Programming languages, Machine Learning, Mobile Computing, and Data Science that meet the automation requirements of society and Industry.

Department of Computer Science and Engineering Dayananda Sagar University Devarakaggalahalli, Harohalli, Kanakapura Road, Ramanagara Dt – 562 112