



SCHOOL OF ENGINEERING

SOE-BULLETIN

The Official Newsletter of **School of Engineering**



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

1. Design and deliver contemporary engineering curricula to address regional and global needs while emphasizing ethics, values, integrity and regional relevance.
2. Carry out 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.
3. Develop regional and national leaders to advance the society and economy.

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SCHOOL OF ENGINEERING



WORKSHOPS / SKILL DEVELOPMENT PROGRAMS

Workshop on: “Research Paper Writing Using Latex”

The Department of Computer Science & Technology organized a workshop on “Research Paper Writing Using LaTeX” on February 18, 2025, led by Prof. Junaid, Assistant Professor, CST, DSU. A total of 96 students participated and successfully completed the session, gaining insights into research fundamentals, scholarly writing, proper citation, and critical evaluation of research studies. The workshop emphasized clear organization, effective communication of research findings, and assessment of research methodologies. Organized by Prof. M. Chithambarathanu, Assistant Professor, CST, the event received an excellent response from students, enhancing their academic writing and research skills.

DSU
DRAVIDA SANGAR
UNIVERSITY

SCHOOL OF ENGINEERING

DEPARTMENT OF COMPUTER SCIENCE AND TECHNOLOGY
PRESENTS:

RESEARCH PAPER WRITING USING LATEX

SPEAKER

The event will be held on:

Tuesday 18th February
Venue D10

Objective

The objective of the workshop is to equip participants with the knowledge and skills required to effectively write and format research papers using LaTeX. The workshop aims to familiarize participants with the LaTeX environment, essential commands, and best practices for creating professional-quality documents, including research papers, theses, and reports.

Outcome

By the end of the workshop, participants will be able to write well-structured research papers using LaTeX, including properly formatted sections, equations, figures, and tables. They will also learn to manage citations and references efficiently, enhancing their academic writing skills. This will enable them to produce professional-quality research documents with ease.

Prof. Junaid M.P.

Junaid Mundhoo-Khalil is an Assistant Professor in the Department of Computer Science and Technology at DRAVIDA SANGAR UNIVERSITY. He holds a Master of Science degree in Data Science Engineering from the Technical University of Delft, the Netherlands, and a Bachelor of Engineering degree in Computer Science and Engineering from IITC, University, India.

Organizers
Prof. M. Chithambarathanu
Assistant Professor, CST
Prof. Junaid M.P.
Assistant Professor, CST

Chairperson
Dr. M. Shobha Perveen
Professor, IIT

Convener
Dr. Umma Kowshik Reddy MS
Dean, School of Engineering
Dr. M. Shobha Perveen
Chairperson, Professor, CST



Faculty Development Program on “Recent Technologies and Innovation in Mechanical Engineering (RTIME)”

The Department of Mechanical Engineering, SoE, organized a One-Week Faculty Development Program (FDP) on "Recent Technologies and Innovation in Mechanical Engineering (RTIME)" from February 3–9, 2025, in collaboration with KK University, Nalanda. The program aimed to enhance faculty knowledge on emerging trends. Experts from academia and industry conducted insightful sessions, fostering discussions on technological advancements and research opportunities. The FDP provided a platform for faculty members to engage in interdisciplinary learning, exchange innovative ideas, and strengthen collaborations. Dr. P. M. G. Bashir Asdaque served as the coordinator from DSU, ensuring the successful execution of the event.



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.





Value Added Course on “Flight System Dynamics”

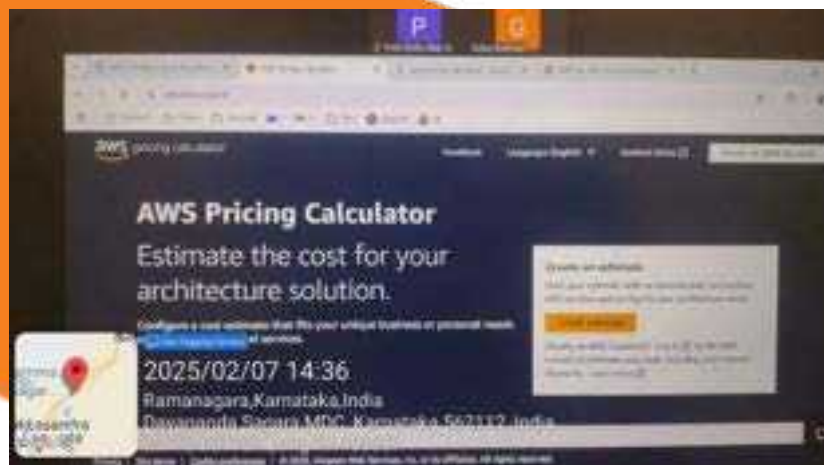
The Value-Added Course on Flight System Dynamics, jointly organized by the International Affairs, DSU, and Department of Aerospace Engineering, DSU from 11 Feb - 14 Feb 2025 for III-year and IV-year students provided students with an in-depth understanding of flight dynamics and control. Conducted by Dr.-Ing. Florian Holzapfel from TUM, the course covered key topics such as equations of motion, stability analysis, dynamic modes, and flight control systems. Through engaging lectures and hands-on simulations, students gained practical insights into real-world aerospace applications, including emerging technologies like eVTOL and Alternate Air Mobility. The course significantly enhanced participants' technical knowledge and analytical skills, making it a transformative learning experience in modern aerospace engineering.



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 an 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 give the participants a good understanding of the AWS Certification Simplified: Cloud Practitioner Essentials and the various tools to promote AWS in gaining experience and to become a competitor in the field of AWS.



Value Added Course on “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 persons for the program were 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





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WEBINARS / SEMINARS / TECHNICAL TALKS

Expert talk on “Implementing Sustainable Development Goals”

On February 18, 2025, the Department of CSE (AI & ML) at Dayananda Sagar University organized an insightful event titled “Implementing Sustainable Development Goals”. The session aimed to address global challenges like poverty, inequality, health, education, environmental sustainability, and economic growth.

Ms. S.V.K.R. Rajeswari led the session, engaging both in-person and online audiences. She provided an in-depth understanding of SDGs, their significance, and the necessary actions to achieve them. The session emphasized the role of academicians in contributing to SDGs and showcased senior students' projects aligning with sustainable goals in various fields like healthcare, automobile technologies, space applications, and sports analytics. Faculty and students were also guided on incorporating SDG-related keywords in research papers.

DAYANANDA SAGAR UNIVERSITY
SCHOOL OF ENGINEERING
DEPARTMENT OF CSE (ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING)

SUSTAINABLE DEVELOPMENT GOALS

Implementing Sustainable Development Goals

GO GREEN

S.V.K.R. Rajeswari
Assistant Professor, Researcher,
Public Speaker, Life Coach,
IELTSP Practitioner,
Lifestyle Writer

CONVENERS:

- Dr. D. Hemachandra Sagar
Chancellor, DSU
- Dr. D. Premachandra Sagar
Pro-Chancellor, DSU
- Dr. Amit Kumar
Vice-Chancellor in Charge, DSU
- Dr. Purnimadevi C
Registrar, DSU
- Dr. Udaya Kumar Reddy
Dean, SOE, DSU
- Dr. Ramnath R Subbaraman
Dean (Acad) Science & Technology
- Dr. Kousalya Gowdhanan
Dean (SOE)
- Dr. Anandkumar Vinayakumar V
Professor & Chairperson CSE (AI & ML), DSU

2:00 P.M to 4:00 P.M
18th Feb 2025
Lecture Hall 4 | Hybrid Mode

Expert Lecture on “Intellectual Property Rights”

The Department of Electronics and Communication Engineering, Dayananda Sagar University, organized an expert lecture on Intellectual Property Rights (IPR) on February 19, 2025, as part of the Student Development Program (SDP). The session was delivered by Dr. M Shahina Parveen, Professor and Chairperson, Department of Computer Science & Technology, DSU, Bengaluru. The session aimed to enhance students' understanding of the fundamental principles of IPR, including patents, copyrights, trademarks, and their practical applications. Dr. Shahina Parveen provided valuable insights into the emerging trends in intellectual property protection and its significance in fostering innovation and entrepreneurship. The event was successfully coordinated by Dr. Arun Balodi, Professor and Chairman of, the Department of Electronics and Communication Engineering, DSU. The lecture received an enthusiastic response from students and faculty members, who actively participated in discussions on legal frameworks and real-world applications of intellectual property.

The poster features logos for Dayananda Sagar University, NAAC, and the Institution's Innovation Council. The main text reads: "DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING, DAYANANDA SAGAR UNIVERSITY PRESENTS STUDENT DEVELOPMENT PROGRAM EXPERT LECTURE ON INTELLECTUAL PROPERTY RIGHTS". It lists the speaker as Dr. M Shahina Parveen, Professor and Chairperson, Department of Computer Science & Technology, DSU, Bengaluru, India. The date is 19 Feb 2025, 10 AM, at Room No 305, 3rd Floor, ECE Department. The organizer is Dr. Arun Balodi, Professor and Chairman, Department of Computer Science & Technology, DSU, Bengaluru, India. The objectives of the SDP are: awareness of fundamental principles of intellectual property rights, patent knowledge, copyright and trademark understanding, practical application, and inspire innovation.

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
DAYANANDA SAGAR UNIVERSITY
PRESENTS
STUDENT DEVELOPMENT PROGRAM

EXPERT LECTURE ON

INTELLECTUAL PROPERTY RIGHTS

Speaker

DR. M SHAHINA PARVEEN
PROFESSOR AND CHAIRPERSON
DEPARTMENT COMPUTER SCIENCE & TECHNOLOGY
DSU, BENGALURU, INDIA

DATE: 19 FEB 2025
TIME: 10 AM
VENUE: ROOM NO 305
3RD FLOOR, ECE DEPARTMENT

OBJECTIVES OF SDP:

- AWARENESS OF FUNDAMENTAL PRINCIPLES OF INTELLECTUAL PROPERTY RIGHTS.
- PATENT KNOWLEDGE.
- COPYRIGHT AND TRADEMARK UNDERSTANDING
- PRACTICAL APPLICATION
- INSPIRE INNOVATION

ORGANIZER:

DR. ARUN BALODI
PROFESSOR AND CHAIRMAN
DEPARTMENT COMPUTER SCIENCE & TECHNOLOGY
DSU, BENGALURU, INDIA





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EVENTS: PROFESSIONAL SOCIETIES / CLUB ACTIVITIES

“Ideaverse’25”

The IDEAVERSE’25 of Dept. of CSE (Data Science), Information Theory Society (ITS) Student Chapter was held on 20th February 2025 from 9:00 AM to 4:20 PM at the LH 2 & 3 ‘A Block’ Ground Floor SOE. This highly anticipated event was organized by the Department of Computer Science and Engineering- (Data Science), School of Engineering, in collaboration with the IEEE Information Theory Society (ITS). IdeaVerse'25 aims to foster innovation, creativity, and problem-solving among participants by providing a dynamic platform for idea exchange. The event encourages collaboration between students, faculty, and industry experts to address real-world challenges through technological solutions. It aspires to inspire and nurture young minds in enhancing their critical thinking and research skills. The ceremony was led by key organizers, including Dr. Shaila S G, Chairperson of the CSE (Data Science) Department, Dr. Pavan Kumar U, Faculty Advisor IEEE ITS Student Branch, DSU, and Prof. Prapti Bhattacharjee, Faculty Coordinator of the IEEE ITS Student Branch at DSU. The event was further supported by the leadership of Dr. Pushpa Mala S, the IEEE Student Branch Counsellor, and Dr. Arun Balodi, Faculty Advisor of IEEE SPS and MTTs, DSU. The student committee played an integral role in managing the event, with Nitin Prajwal R. - Chair of IEEE ITS, Pavan Kumar G. - Vice-Chair, Janardhan KS - Secretary, and other IEEE ITS members taking the lead in student coordination. The chief guest of the event was Dr. Kishore Kumar Pedapenki, a Senior Member of IEEE and an Associate Professor at Jain University, Bangalore.





“Inauguration Program of 5th OJT – Strides”

The Department of Mechanical Engineering has inaugurated the 5th OJT – On the Job Training for employees of Strides Pharma Science Limited, Bengaluru. On 13th February 2025. Dr. Vinayak B Hemadri – Chairman, Dept. of Mechanical Engineering, Dr. Seema Tharannum – Professor of Biological Sciences – SOE, DSU & Mr. Vijay Kumar Director - Training & Corporate Relations, DSU addressed the employees about the program. The program is organized for 26 employees/ trainees of Strides Pharma for 30 days and is oriented in different subjects like Pharmacy, Mechanical Engineering, Management and Soft Skills.



“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.



National Service Scheme “Anti-Ragging Awareness Activity”

On February 20, 2025, the Anti-Ragging Awareness Activity was conducted by the CSE (AI & ML) Department at Dayananda Sagar University. The event, chaired by Dr. Jayavrinda Vrindavanam V and coordinated by Dr. Shreyas Rajendra Hole, aimed to educate students on the harmful effects of ragging and promote a safe, inclusive campus culture. The program began with a welcome address by Dr. Shreyas Rajendra Hole, who introduced NSS and the significance of anti-ragging awareness. The first activity was an open-place skit titled "The Right Action," performed by students, portraying real-life scenarios where seniors and faculty intervened to foster a respectful and ethical environment. The skit effectively highlighted the importance of mutual respect and the role of authority in preventing ragging. Following this, an Anti-Ragging Awareness Presentation was conducted in classrooms, featuring PowerPoint slides and posters explaining anti-ragging laws, university policies, and consequences for violators. The interactive session encouraged student participation, discussions, and real-life scenario analysis. The event concluded with an Anti-Ragging Pledge, reinforcing students' commitment to a ragging-free campus. The initiative successfully raised awareness, promoted ethical behavior, and strengthened student-faculty collaboration to ensure a safe and inclusive academic environment.





“4th Semester Orientation” - CST

The Department of Computer Science & Technology conducted orientation sessions for 4th-semester students on 17th February 2025. The session started with the address by the chairperson, Dr. M Shahina Parveen, where she welcomed the 4th-semester students to the classes. She gave complete insight into the academics, placements, start-ups, technical and non-technical events. She also mentioned the involvement of the students in the departmental activities and also the importance of the curriculum, and importance of attendance, informing about university regulations, discipline, mentoring, DO'S, and DON'TS. Lastly, the orientation ended with general information about the semester and the Course objectives syllabus and course outcomes, how the entire semester would be working, and so on by the class advisor, Prof Vinayaka V M.





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INDUSTRIAL VISIT

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.



Visit to “Karnataka State Pollution Control Board”

A team from Dayananda Sagar University attended a meeting at the Karnataka State Pollution Control Board on February 19, 2025, to discuss the development of three technology-driven projects: a Hi-Tech Push Cart and app for vegetable and fruit vendors, a wastewater reuse solution for Bangalore’s construction industry, and a Construction & Demolition Waste Management app. These projects, aimed at addressing environmental and urban challenges, will be funded by Ramki Group Hyderabad, which will also purchase the developed apps. The initiative aligns with sustainability goals relevant to NAAC, NBA, and NITF accreditation. Leading the effort were Prof. Shyamantha Suryaprakash (Deputy Director, Student Affairs & SPOC, DSU), Dr. Pramod Kumar Naik (Associate Professor & Chairman, Department of AIR), Dr. Bahubali (Professor, Department of AI & ML), Dr. George Fernandez (Associate Professor, Department of CSE), and Dr. Arun Gopu (Associate Professor, Department of CSE), who participated in discussions on leveraging technology for sustainable urban solutions.



Visit to “SPMIL”

Dr. Gangadhar T G, from the Department of AI & Robotics, along with project students from Dayananda Sagar University, attended a meeting at SPMIL, Bangalore, on February 21, 2025, to discuss the progress of three ongoing consultancy projects. The meeting focused on evaluating the current status of each project, addressing challenges, and exploring innovative solutions to enhance their outcomes. Discussions included AI-driven automation, robotics integration, and machine learning applications to optimize efficiency and performance. The team also explored the potential for industry-academia collaboration, emphasizing research-driven solutions for real-world industrial challenges. The session provided students with practical exposure to project management, problem-solving, and cutting-edge technological advancements, strengthening their technical and analytical skills. The collaboration with SPMIL highlights DSU's commitment to bridging the gap between academia and industry, fostering innovation, and contributing to technological advancements in AI and robotics.



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FACULTY ACHIEVEMENTS



Dr. Mubeen Ahmed Khan
Assistant Professor
Department of CSE(CY)

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



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



- Dr. Mubeen Ahmed Khan has authored a textbook titled "Machine Learning with Python: A Practical Approach", officially published by Scicrafthub Publication with ISBN 978-81-982185-0-6 on February 18, 2025.





Prof. Sharanabasappa Tadkal
Assistant Professor
Department of CSE(CY)

- Prof. Sharanabasappa Tadkal has successfully completed the course Security Principles certification on February 19, 2025. This certification validates expertise in foundational cybersecurity principles, reinforcing the importance of security best practices in today's digital landscape.



- Prof. Sharanabasappa Tadkal has successfully completed the course on CC Domain 2: Incident Response, Business Continuity, and Disaster Recovery Concepts certification on February 19, 2025. This credential recognizes expertise in mitigating security incidents, ensuring business continuity, and implementing disaster recovery strategies—critical skills in today's cybersecurity landscape.



- Prof. Sharanabasappa Tadkal has successfully completed the course on CC Domain 3: Access Control Concepts certification on February 20, 2025. This achievement highlights expertise in access control mechanisms, authentication methods, and identity management, which are essential for securing digital assets.





Dr. Dilip Kumar Jang Bahadur Saini
Associate Professor
Department of CSE(CY)

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

INTERNATIONAL CONFERENCE ON FUTURISTIC ASPECTS IN SCIENCE & ENGINEERING (ICFAISE-2025)

Session chair

Dr. DILIP KUMAR JANG BAHADUR SAINI
Associate Professor ,
Dayananda Sagar University

07th February, 2025
10:00 AM Onwards
(Virtual)

Publication Partner **Know More**

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

IcfaiTech, Jaipur [icfaitech_jaipur](#)

- Dr. Dilip Kumar Jang Bahadur Saini has successfully participated in the one-week Faculty Development Program on “AI for Healthcare: Innovations, Applications, and Future Trends” organized by the Department of CSE-DS & CSE-IoT CSBT, Vishwakarma Institute of Information Technology (VIIT), Pune, from February 10th to 14th, 2025.



- Dr. Dilip Kumar Jang Bahadur Saini has published a research article titled “MapReduce-Enhanced Fuzzy K-Least Medians for Qualitative Clustering of Document Big Data” in the journal titled “Concurrency and Computation: Practice and Experience”.

RESEARCH ARTICLE

MapReduce-Enhanced Fuzzy K-Least Medians for Qualitative Clustering of Document Big Data

Tanvir Habib Sardar ✉, Zahid Ahmed Ansari, Prasannavenkatesan Theerthagiri, P. Karthikeyan, Vadivel Ayyasamy, Dilip Kumar Jang Bahadur Saini

First published: 25 February 2025 | <https://doi.org/10.1002/cpe.70035>

Funding: Financial support was provided by the GITAM University, Bangalore, India, with an intramural grant of 38 Lakh INR to set up the Hadoop cluster for this work with an intramural Grant ID GINRCHGRT17/22. The grant duration is 2 years, from September 2022 to September 2024.

- Dr. Dilip Kumar Jang Bahadur Saini, has been honoured by the Ideal Institute of Technology for his valuable contribution as a Webinar Speaker. He conducted an insightful and engaging session on "Artificial Intelligence in Smart Healthcare" on February 17, 2025, at 12:30 PM (Virtual Mode). His expertise in AI-driven healthcare advancements provided attendees with valuable knowledge on AI applications, future possibilities, and its transformative impact on the healthcare sector.





Dr. Devipriya V S
Assistant Professor
Department of CSE(CY)

- Dr. Devi Priya V S has successfully completed the One Week Faculty Development Program on "AI for Healthcare: Innovations, Applications, and Future Trends" organized by the Department of CSE-DS & CSE-IoT CSBT, Vishwakarma Institute of Information Technology (VIIT), Pune, from February 10th to 14th, 2025.



- Dr. V. S. Devi Priya has actively participated in a five-day international Faculty Development Program on "AI in cyber security" organized by the Department of Artificial Intelligence and Data Science, Ramco Institute of Technology, from 17.02.2025 to 21.02.2025.





Dr. Prajwalasimha S N
Assistant Professor
Department of CSE(CY)

- Dr. Prajwalasimha S N has been recognized for his contribution as a Session Chair at the International Conference on Futuristic Aspects in Science & Engineering (ICFAiSE-2025), held on February 6-7, 2025, at ICFAI University, Jaipur.





Dr. D.Sumathi
Professor
Department of CSE(CY)

- Dr. D. Sumathi has actively participated in a five-day international Faculty Development Program on “AI in cyber security” organized by the Department of Artificial Intelligence and Data Science, Ramco Institute of Technology, from 17.02.2025 to 21.02.2025.





Dr. Shaila S. G
Professor and Chairperson
Department of CSE(DS)

- Dr. Shaila S G has participated in a Five-day faculty Development Program on "Embedded System Design Using Arm Cortex" Organized by the Department of CSE, School of Engineering, Dayananda Sagar University from 3rd to 07th Feb 2025



Prof. Chandrakala L
Assistant Professor
Department of CSE(DS)

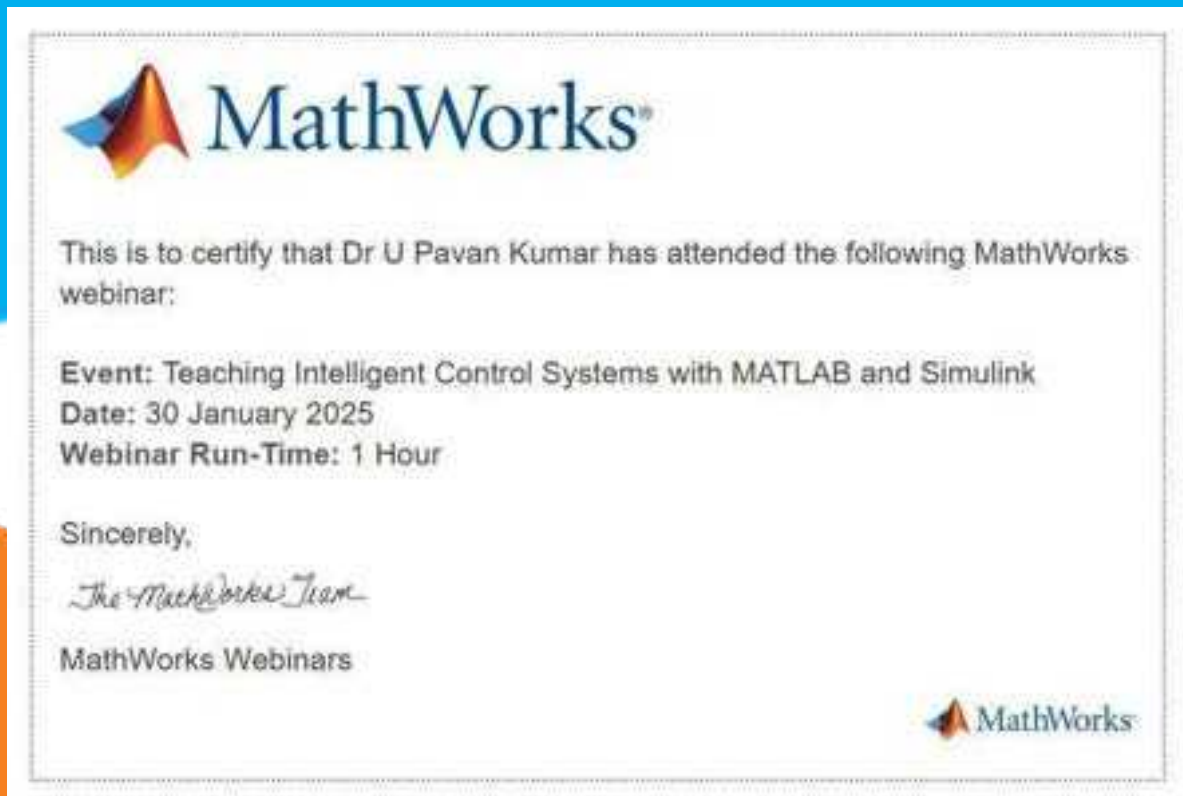
- Prof. Chandrakala L participated five-day faculty Development Program on "Embedded System Design Using Arm Cortex" Organized by the Department of CSE, School of Engineering, Dayananda Sagar University from 3rd to 07th Feb 2025





Dr. U. Pavan Kumar
Assistant Professor
Department of CSE(DS)

- Dr. U. Pavan Kumar attended the Webinar on "Teaching Intelligent Control Systems with MATLAB and Simulink" organized by MathWorks on 30th January 2025.



- Dr. U. Pavan Kumar has participated in a six-day Online Faculty Development Program on “IOT in Focus Emerging Trends and Real - World Challenges” held from 20.01.2025 to 25.01.2025 hosted by Sri Sai Ram Engineering College.



- Dr. U. Pavan Kumar has participated in a six-day Online Faculty Development Program on “IOT in Focus Emerging Trends and Real - World Challenges” held from 20.01.2025 to 25.01.2025 hosted by Sri Sai Ram Engineering College.





Prof. Godhandaraman T
Assistant Professor
Department of CSE(DS)

- Prof. T. Godhandaraman has participated in a six-day Online Faculty Development Program on “IOT in Focus Emerging Trends and Real - World Challenges” held from 20.01.2025 to 25.01.2025 hosted by Sri Sai Ram Engineering College.



- Prof. T. Godhandaraman has participated in the Faculty Development Program on “Gen AI & Chat GPT Application in the Industry” Organized by the Department of MBA & Research Centre, SJC Institute of Technology, Chikkaballapur. Chaitanya Bharathi Institute of Technology Autonomous, Hyderabad – Telangana. Bharti Vidyapeeth (Deemed to be University) College of Engineering, Pune in Collaboration with ExcelR Edtech Pvt. Ltd from 27th Jan to 31st Jan 2025.



- Prof. T. Godhandaraman has successfully participated in the One-Week International Faculty Development Program on AI in Cyber Security organized by RAMCO Institute of Technology, Department of Artificial Intelligence and Data Science, held from February 17, 2025, to February 21, 2025.





Dr. Santhosh Kumar G
Associate Professor
Department of CSE(DS)

- Dr. Santhosh Kumar G has successfully participated in the One Week National Level Faculty Development Program on “AI Tools” organized by Mahatma Gandhi Mission’s College of Engineering and Technology in association with Brainovision Solutions India Private Ltd. in collaboration with All India Council for Technical Education (AICTE) during the period of 17th to 21st February 2025.





Dr. Ravitej Y P
Assistant Professor
Department of ME

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





Prof. Abhijith.N
Assistant Professor
Department of ME

- Prof. Abhijith N Gowda, Assistant professor, Department of Mechanical Engineering, DSU-SoE, presented a paper titled “Self- rejuvenation potential of river: A case study” in sixth international multi conference on Emerging Trends in Engineering (ICETE 2025) organized at NMAM Institute of technology, Nitte- Karkala, Karnataka.





Prof. Abhilash O
Assistant Professor
Department of ME

- Prof. Abhilash O, Department of Mechanical Engineering attended 7th International Conference on Bioenergy, Environment, and Sustainable Technologies and presented paper Titled “Optimizing B20 Milks cum Biodiesel Performance with Nano-Scale Additives: A Focus on Emissions and Performance Dynamics” at Arunai Engineering College, Tiruvannamalai, Tamil Nadu, India.





**Dr M Shahina Parveen
Professor & Chairperson
Department of CST**

- Dr. M Shahina Parveen, Professor visited the Department of ECE, DSU as a resource person to deliver on the topic “Intellectual Property Rights” on February 19, 2025.

DEPARTMENT OF ELECTRONICS AND COMMUNICATION
ENGINEERING
DAYANANDA SAGAR UNIVERSITY
PRESENTS
STUDENT DEVELOPMENT PROGRAM

EXPERT LECTURE ON

INTELLECTUAL PROPERTY RIGHTS

Speaker

DR. M SHAHINA PARVEEN
PROFESSOR AND CHAIRPERSON
DEPARTMENT OF COMPUTER SCIENCE &
ENGINEERING
DAYANANDA SAGAR UNIVERSITY

DATE: 19 FEB 2025
TIME: 10 AM
VENUE: ROOM NO 305
3RD FLOOR, ECE DEPARTMENT

OBJECTIVES OF SDP:

- AWARENESS OF FUNDAMENTAL PRINCIPLES OF INTELLECTUAL PROPERTY RIGHTS INTELLECTUAL PROPERTY, PATENT KNOWLEDGE,
- COPYRIGHT AND TRADEMARK UNDERSTANDING
- PRACTICAL APPLICATION
- INSPIRE INNOVATION

DR. ABIN SAI DUY
PROFESSOR AND CHAIRMAN
DEPARTMENT OF COMPUTER SCIENCE &
ENGINEERING
DAYANANDA SAGAR UNIVERSITY



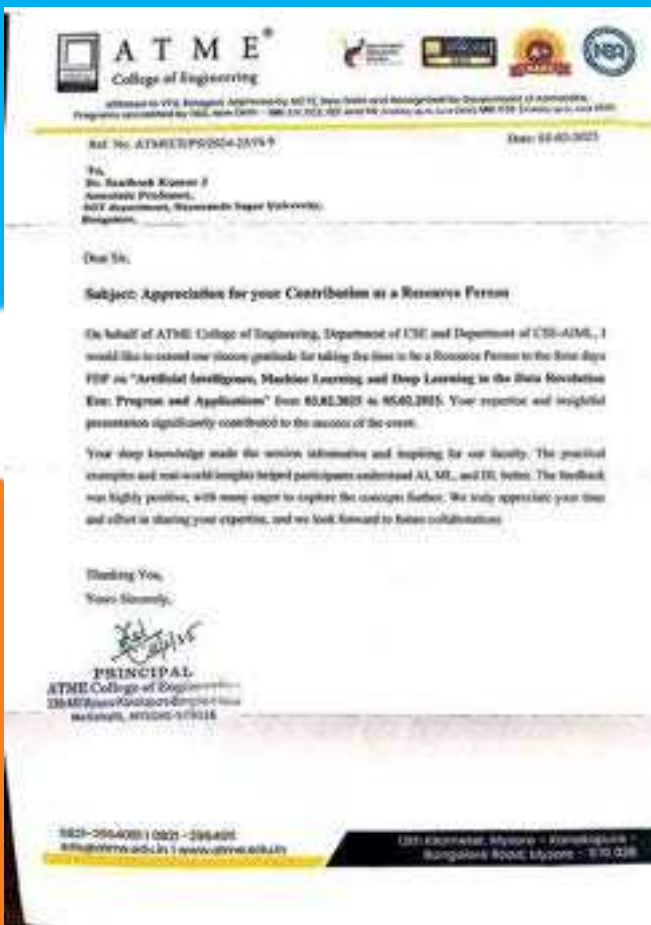
- Dr. M Shahina Parveen, Professor visited the Department of Mechanical Engineering, DSU as a resource person to deliver a topic “Intellectual Property Rights” in the 5th OJT Strides on February 21, 2025.





Dr. Santhosh Kumar J
Associate Professor
Department of CST

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





Prof. Junaid Mundichipparakkal
Assistant Professor
Department of CST

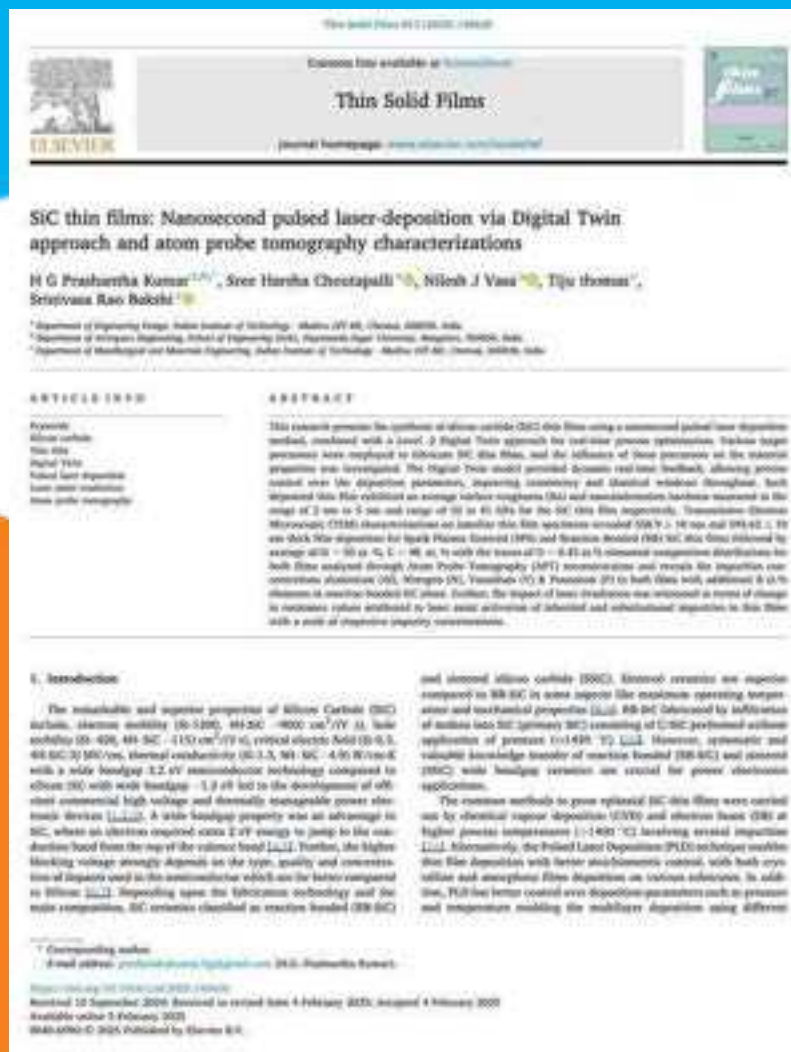
- Prof. Junaid has participated in a five-day online Faculty Development Programme (FDP) on “Building Web Development Solutions with Cloud Computing” under the Next Gen Employability Program held from 27th -31st January 2025.





Dr. Prashantha Kumar HG
Assistant Professor
Department of ME

- Dr Prashantha Kumar HG published Q2 paper titled “SiC thin films: Nanosecond pulsed laser deposition via Digital twin approach and atom probe tomography characterization” in Thin solid films” Journal.





Dr. Bharath Kumar S
Assistant Professor
Department of AI&RO

- Dr. Bharath Kumar S from AI and Robotics published a journal paper entitled “Experimental and prediction analysis of separating blast furnace slag in the vibratory separator” in Canadian Metallurgical Quarterly, Taylor and Francis. This Paper is a Q2 (SCI, Scopus) publication.



- Dr. Bharath Kumar S from AI and Robotics published a journal paper entitled “Comparison of the performance of indirect evaluation of flank wear for turning inconel-718 using the processed image and acoustic waves” in Surface Letter & Review. This Paper is a Q3(SCI, Scopus) publication.



- 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.





Dr. Venkateswarlu. B
Associate Professor
Department of CSE

- Dr. Bondu Venkateswarlu, Associate Professor and Mr. Subba Reddy Meruva Research 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. Sasikala N
Assistant Professor
Department of CSE

- 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.





Prof. Bharath M B
Assistant Professor
Department of CSE

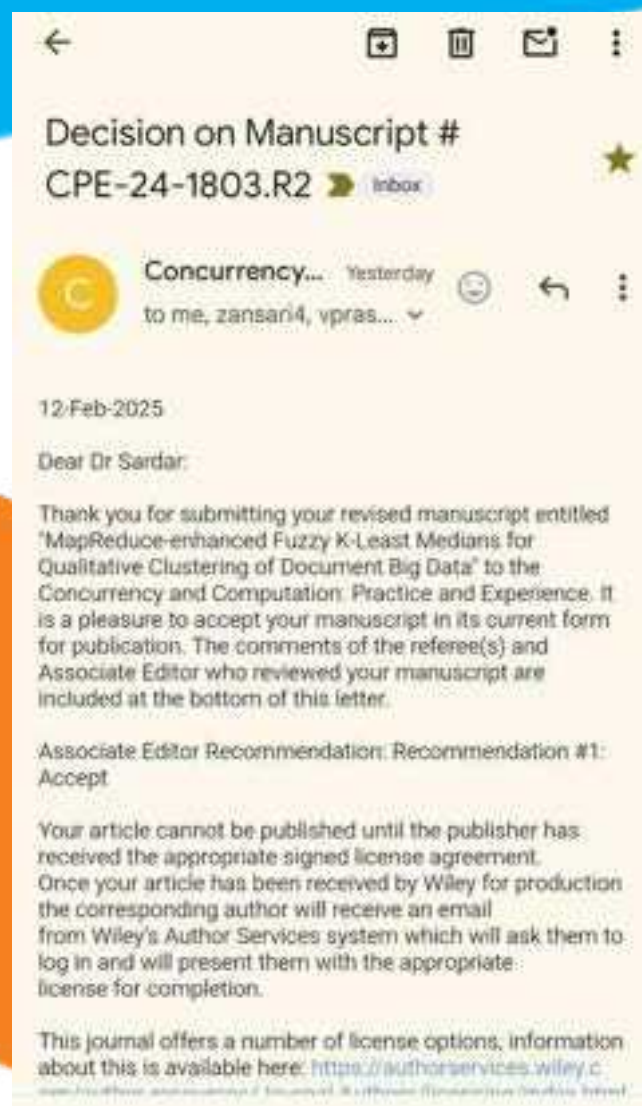
- Prof. Bharath M B, Assistant Professor, Department of CSE has successfully participated in 6 days National Level Faculty Development Program on “Recent Trends in Artificial Intelligence and Machine Learning” from 3rd to 8th February 2025 organized by Department of CSE(AI&ML), Global Academy of Technology,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





Dr Tanvir Habib Sardar
Associate Professor
Department of CSE

- 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.





Dr. Poongodi T
Professor
Department of CSE

- 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 the Department of Computer Science Engineering (AIML), GL Bajaj Institute of Technology and Management, Greater Noida, UP, India, held on 8th -9th February, 2025.





Dr. A. Senthil Kumar
Professor
Department of CSE

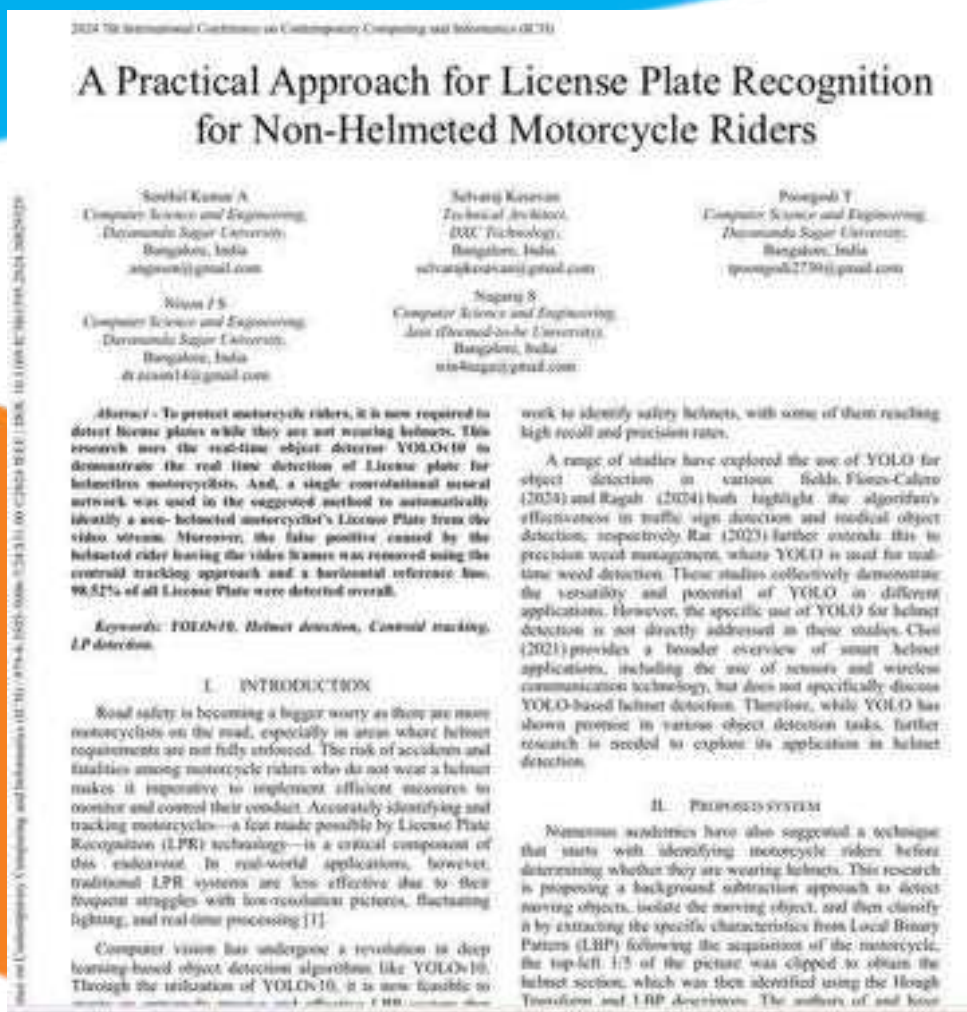


Dr. Poongodi T
Professor
Department of CSE



Dr. Nixon J S
Professor
Department of CSE

- 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. Bipin Kumar Rai
Professor
Department of CSE

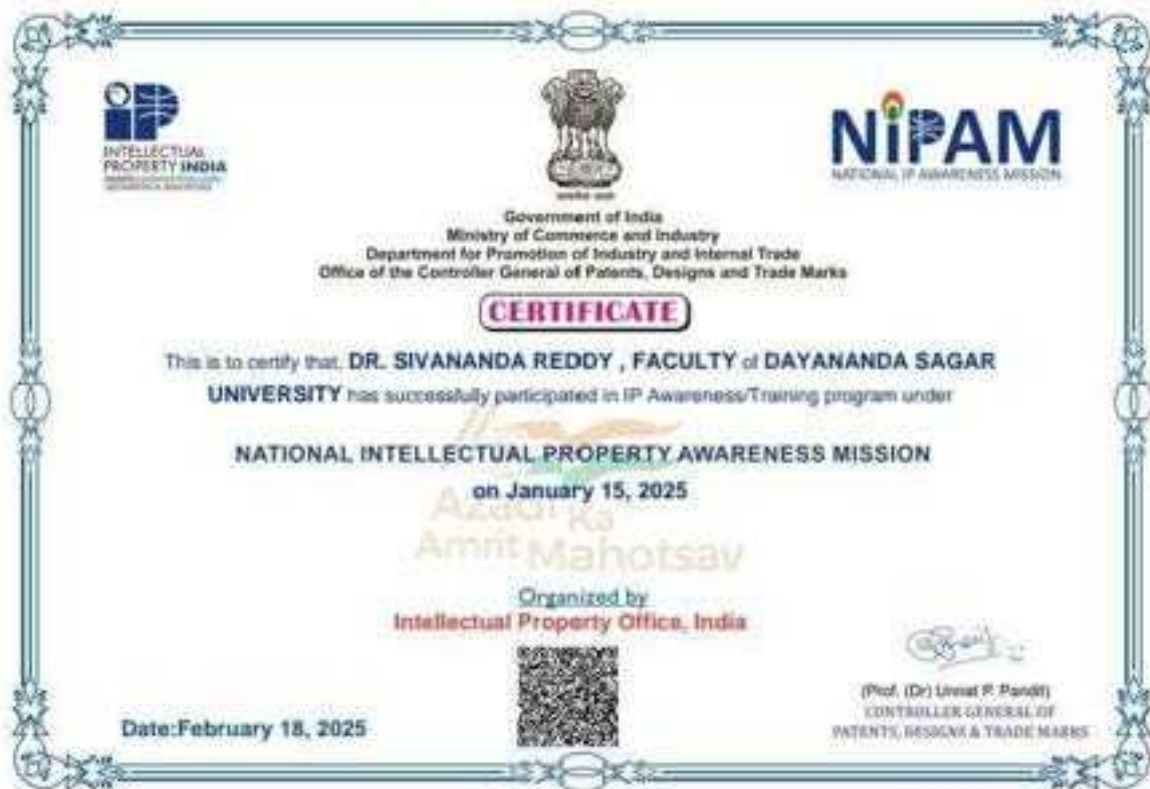
- Dr. Bipin Kumar Rai, Professor, Department of CSE has successfully completed online courses on the Infosys Springboard platform with the course titles “Introduction to Data Science”, “Introduction to Artificial Intelligence” and “Computer Vision 101” during 17th, 19th, and 22nd February 2025 respectively.





Dr. Sivananda Reddy
Associate Professor
Department of CSE

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





Dr.Gokulakrishnan S
Assistant Professor
Department of CSE

- Dr. S. Gokulakrishnan, Assistant Professor, Department of CSE successfully completed an online 20-hour AWS Academy Graduate – AWS Academy Cloud Foundations certificate on 22nd February 2025.





Dr. Renuka Devi M.N
Assistant Professor
Department of CSE

- Dr. Renuka Devi M N, Assistant Professor, Ms. Talupula Jahnvi (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. Damodharan D
Assistant Professor
Department of CSE

- Dr. Damodharan, Assistant Professor, Department of CSE has successfully attended a two-day 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.





Prof. Mala B A
Assistant Professor
Department of CSE



Prof. Arpita Paria
Assistant Professor
Department of CSE



Dr. George Fernandez I
Associate Professor
Department of CSE

- 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) on 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.



GRENZE International Journal of Engineering and Technology: Volume 10(1)

UDuctor: Enhanced Assistance and Monitoring of Noncommunicable Diseases using Pervasive Computing

Mala B A, Arpita Paria, George Fernandez I, Lavanya R and Anuja Paria
 Assistant Professor, Dept. of CSE, School of Engineering, Techno India Group University, Varanasi, Varanasi, Uttar Pradesh, India, arpita@tigit.ac.in, lavanya@tigit.ac.in, anuja@tigit.ac.in
 Assistant Professor, Dept. of CSE, School of Engineering, Techno India Group University, Varanasi, Varanasi, Uttar Pradesh, India, malab@tigit.ac.in
 Assistant Professor, Dept. of CSE, School of Engineering, Techno India Group University, Varanasi, Varanasi, Uttar Pradesh, India, george@tigit.ac.in
 Assistant Professor, Dept. of AEM, Varanasi Institute of Technology, Varanasi, Varanasi, Uttar Pradesh, India, lavanya@vit.ac.in

Abstract: The world's main causes of death are noncommunicable diseases (NCDs), which include diabetes, heart disease, and lung and respiratory diseases. Personalized healthcare support, group interaction, and ongoing monitoring are necessary for managing these diseases. Unfortunately, due to pervasive suffering for disease care, however, the administration of such is not believed. In order to increase support for patients with noncommunicable diseases, this paper presents UDUCTOR, a ubiquitous computing-based platform to help increase diabetes patients' life self-administration activities and self-regulation support among self-help association and group activities, especially in remote areas. UDUCTOR provides continuous support to the patients in other suitable areas for their self-administration activities. The proposed model called UDUCTOR uses the most effective self-help self-administration and continuous support. The proposed framework is used by a group of patients who maintain any fluctuating and severely helpful for precise circumstances, and it can be utilized frequently by the patients' system. The noncommunicable disease patients are going to fill the gap in the UDUCTOR model to get the helpful users for their administration.

Index Terms: UDUCTOR, Pervasive Computing, Diabetes, Computing, Patient, Non-Communicable Diseases (NCD).

1. INTRODUCTION

Health is an important thing for human beings. But the cause of the disease is increasing the burden on the poor countries in the global system report of the World Health Organization (WHO). The examples of NCD are obesity, high blood pressure and diabetes. The causes for these diseases are the smoking and unhealthy life style, which will lead to the changes in the metabolic or physiological conditions [1]. Chronic diseases are the diseases which don't resolve themselves to prevent [1]. This disease leads to death across the globe than the combination of all other diseases. Especially these diseases cause to 80% of the deaths in the past and developing countries.

Article ID: GJIT2511.1.0011
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Prof. Shilpa Sudheendran
Assistant Professor
Department of CSE

Prof. Sasikala N
Assistant Professor
Department of CSE

- Prof. Shilpa Sudheendran and Prof. Sasikala N, Assistant Professors, Department of CSE have successfully participated in & completed the 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. Vegi Fernando A
Associate Professor
Department of CSE(AIML)

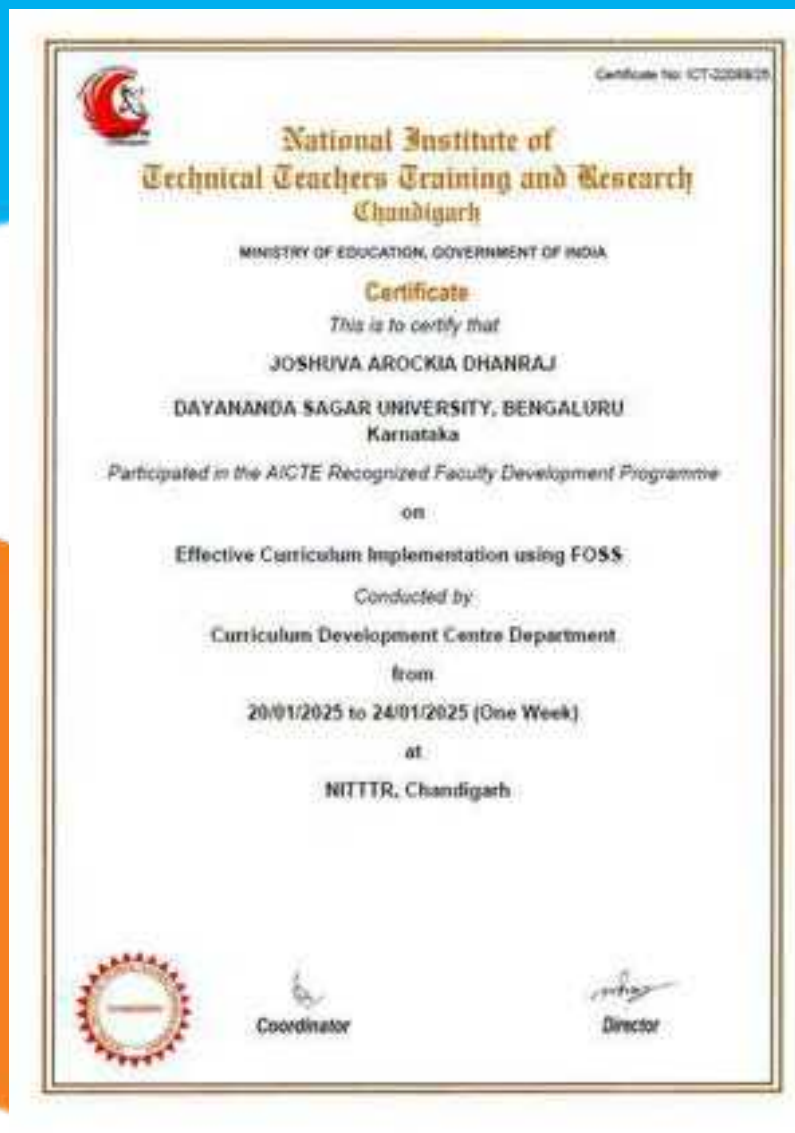
- Dr. Vegi Fernando A, Associate Professor, Dept. of CSE (AI&ML), Presented the paper titled “Artificial Intelligence: Unlocking the Future of Technology” at the International Conference on Next Generation Communication & Information Processing (INCIP-2025) held on 23rd-24th January 2025 at Manipal Institute of Technology Bengaluru, in association with Manipal Institute of Technology, Manipal, and Manipal University Jaipur.





Dr. Joshuva Arockia Dhanraj
Associate Professor
Department of CSE(AIML)

- Dr. Joshuva Arockia Dhanraj, Associate Professor, Dept. of CSE (AI&ML), Participated in the AICTE Recognized Faculty Development Programme on Effective Curriculum Implementation using FOSS Conducted by Curriculum Development Centre Department from 20/01/2025 to 24/01/2025 (One Week) at NITTTR, Chandigarh.



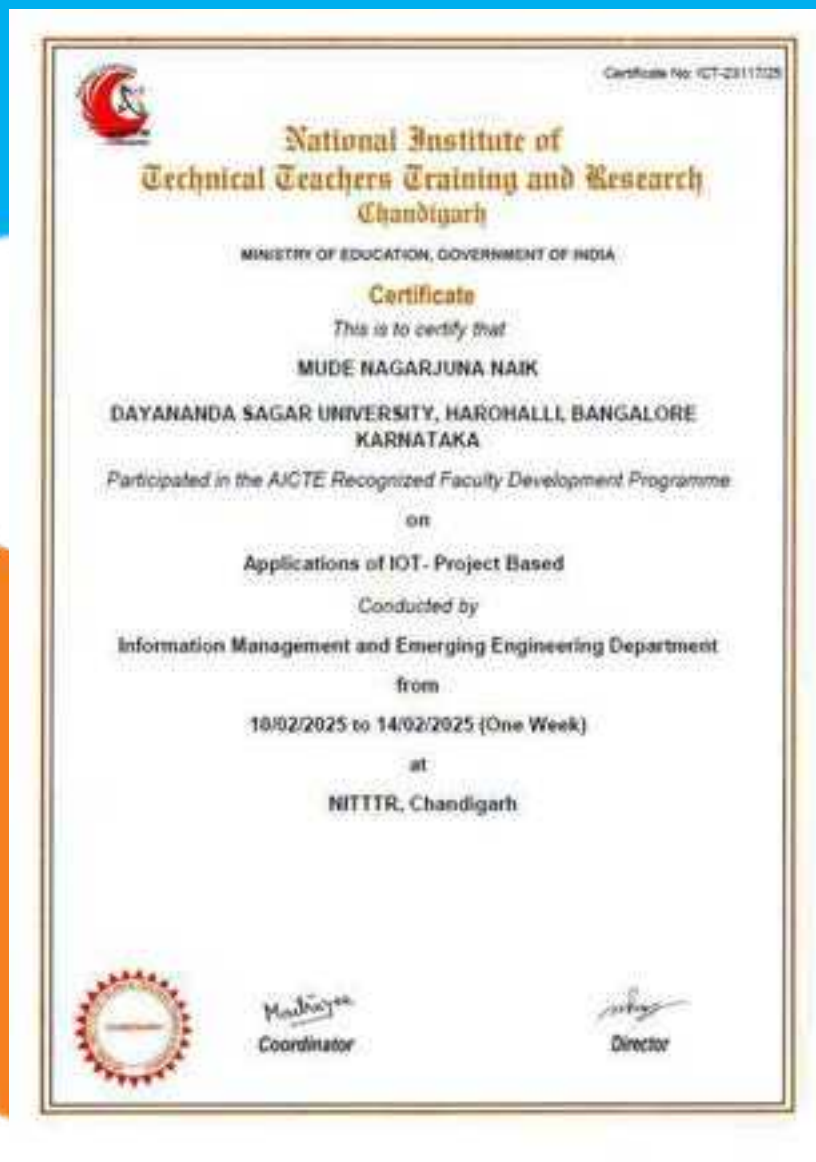
- Dr. Joshuva Arockia Dhanraj, Associate Professor, Dept. of CSE (AI & ML), Dayananda Sagar University, has recently published a book titled "Fundamentals of Robotics and Artificial Intelligence" with Scientific International Publishers. This book provides comprehensive insights into the principles, applications, and advancements in robotics and AI, making it a valuable resource for students, researchers, and professionals. The publication, identified by ISBN: 978-93-6674-190-1, covers key topics in intelligent automation, machine learning, and robotic systems. It is available at <https://tinyurl.com/yd3ebhbb>





Dr. Mude Nagarjuna Naik
Assistant Professor
Department of CSE(AIML)

- Dr. Mude Nagarjuna Naik, Assistant Professor, Dept. of CSE (AI&ML), has Participated in the AICTE Recognized Faculty Development Programme on Applications of IOT- Project Based Conducted by Information Management and Emerging Engineering Department from 10/02/2025 to 14/02/2025 (One Week) at NITTTR, Chandigarh.





Dr. Vinutha N
Associate Professor
Department of CSE(AIML)

- Dr. Vinutha N, Associate Professor, Dept. of CSE (AI&ML), has successfully Participated in the One Week National Level Faculty Development Program on AI Tools organized by DAYANANDA SAGAR ACADEMY OF TECHNOLOGY and MANAGEMENT in association with Brainovision Solutions India Pvt Ltd in collaboration with All India Council for Technical Education (AICTE) During the period of 17th to 21st February 2025. We commend your dedication to enhancing your knowledge with AI TOOLS.





Dr. M. Lakshmanan
Assistant Professor
Department of CSE(AIML)

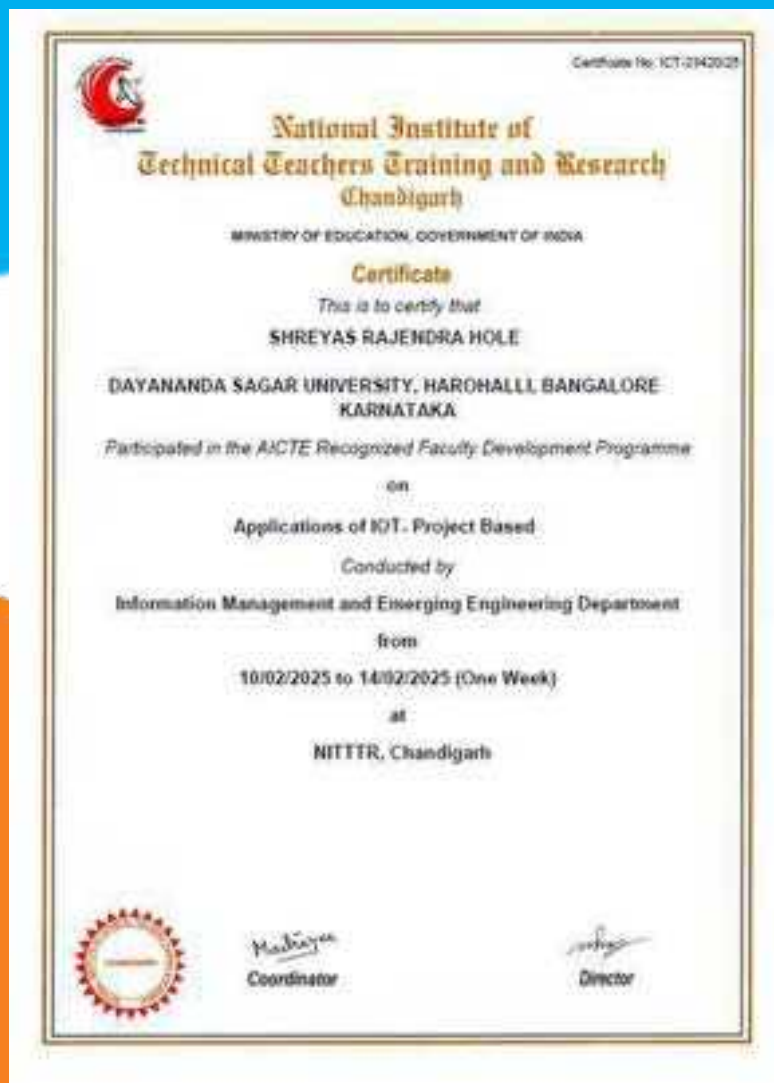
- Dr. Lakshmanan M, Assistant Professor, Dept. of CSE (AI&ML), has Participated in the AICTE Recognized Faculty Development Programme on Applications of IOT- Project Based Conducted by Information Management and Emerging Engineering Department from 10/02/2025 to 14/02/2025 (One Week) at NITTTR, Chandigarh.



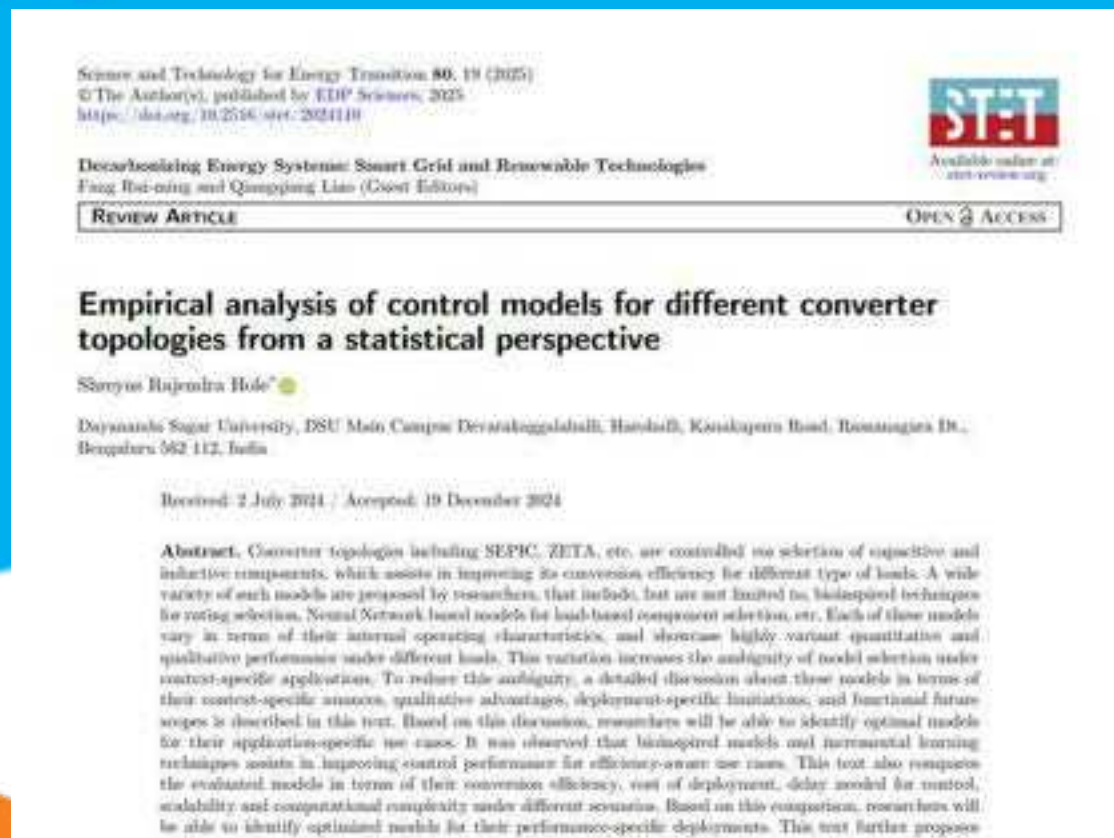


Dr. Shreyas Rajendra Hole
Assistant Professor
Department of CSE(AIML)

- Dr. Shreyas Rajendra Hole, Assistant Professor, Dept. of CSE (AI&ML), has Participated in the AICTE Recognized Faculty Development Programme on Applications of IOT- Project Based Conducted by Information Management and Emerging Engineering Department from 10/02/2025 to 14/02/2025 (One Week) at NITTTR, Chandigarh.



- Dr. Shreyas Rajendra Hole, Assistant Professor, Dept. of CSE (AI&ML) has published a journal in Science and Technology for Energy Transition titled “Empirical analysis of control models for different converter topologies from a statistical perspective” Q2, Impact factor=1.8, 2025. <https://doi.org/10.2516/stet/2024110>





Dr. Abdul Haq Nalband
Associate Professor
Department of CSE(AIML)

- Dr. Abdul Haq Nalband, Associate Professor, CSE (AI & ML), Dayananda Sagar University, Bengaluru, Karnataka Participated in one week online "Faculty Development Program" on the topic "Securing the Wireless Horizon: Emerging Challenges and Solutions in Wireless Communication" (SEWC-2025) (From 3rd February to 8th February 2025).





Dr. Bahubali Shiragapur
Professor
Department of CSE(AIML)

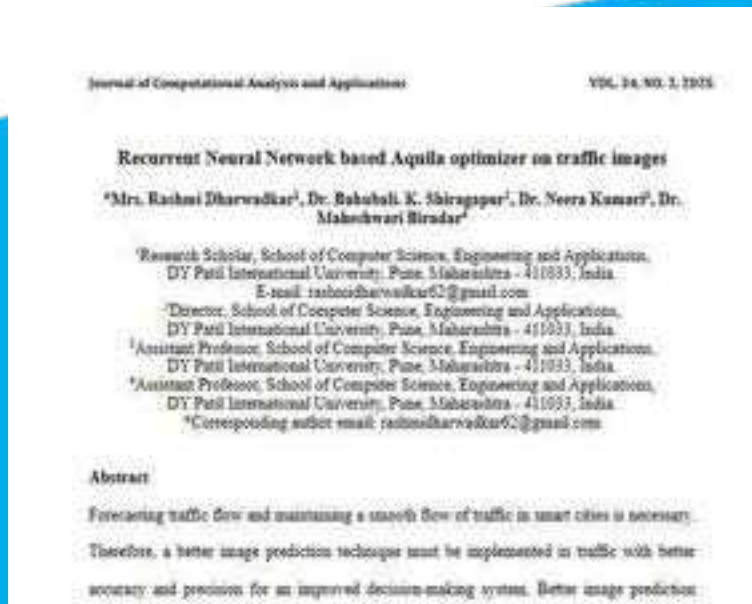
- Dr. Bahubali Shiragapur, Professor, Dept. of CSE (AI&ML), has successfully received the certificate of participation for attending the BCI & Neurotechnology Masterclass EEG & fNIRS on February 25, 2025.



- Dr. Bahubali Shiragapur, Professor, Dept. of CSE (AI&ML), has published a paper in the information fusion journal title “A lightweight robust RGB-T object tracker based on Jitter Factor and associated Kalman filter”, Q1, Impact factor=14.8, 2025. <https://doi.org/10.1016/j.inffus.2024.102842>



- Dr. Bahubali Shiragapur, Professor, Dept. of CSE (AI&ML), has published a Journal in Computational Analysis and Applications (JoCAAA) journal titled “Recurrent Neural Network Based Aquila Optimizer on Traffic Images”, Q3, Impact factor=0.236, 2025. <https://eudoxuspress.com/index.php/pub/article/view/1923>



- Dr. Bahubali Shiragapur, Professor, Dept. of CSE (AI&ML), has published a Journal in Information Systems Engineering and Management journal titled “Enhanced Spectrum Sensing with Self-Organizing Maps and Deep Belief Networks: A Time-Efficient Approach”, Q3, Impact factor=1.26, 2025. <https://www.jisem-journal.com/index.php/journal/article/view/1952>



- Dr. Bahubali Shiragapur, Professor, Dept. of CSE (AI&ML), has published a Journal in Springer Nature, Scientific reports (Reprint) titled “EEG signal analysis for ‘OM’ Mantra Meditation” Q1, Impact factor=2.3, 2025. <https://doi.org/10.21203/rs.3.rs-5892564/v1>



- Dr. Bahubali Shiragapur, Professor, Dept. of CSE (AI&ML), has published a Journal in Applied AI Letters title “A Systematic Review on the Role of Sentiment Analysis in Healthcare” Q2, Impact factor=1.6, [10.22541/au.172516418.81416769/v1](https://doi.org/10.22541/au.172516418.81416769/v1)





Prof. Subhash Mondal
Assistant Professor
Department of CSE(AIML)

- Prof. Subhash Mondal, Assistant Professor, Dept. of CSE (AI & ML), Dayananda Sagar University, has published a Q1 journal article in Nature Publishing's Scientific Reports on February 9, 2025. Titled "An efficient artificial neural network-based optimization technique for the early prediction of coronary heart disease: comprehensive analysis," the study presents an advanced AI-driven approach to early disease detection. Scientific Reports is indexed in SCIE and SCOPUS, with an Impact Factor of 3.8, ranking as the world's 5th most cited journal. This high-impact research contributes significantly to AI applications in healthcare. The journal can be accessed at [Nature Publishing](https://doi.org/10.1038/s41598-025-85765-x), with DOI: [10.1038/s41598-025-85765-x](https://doi.org/10.1038/s41598-025-85765-x).





Dr. Arun Balodi
Professor & Chairperson
Department of ECE

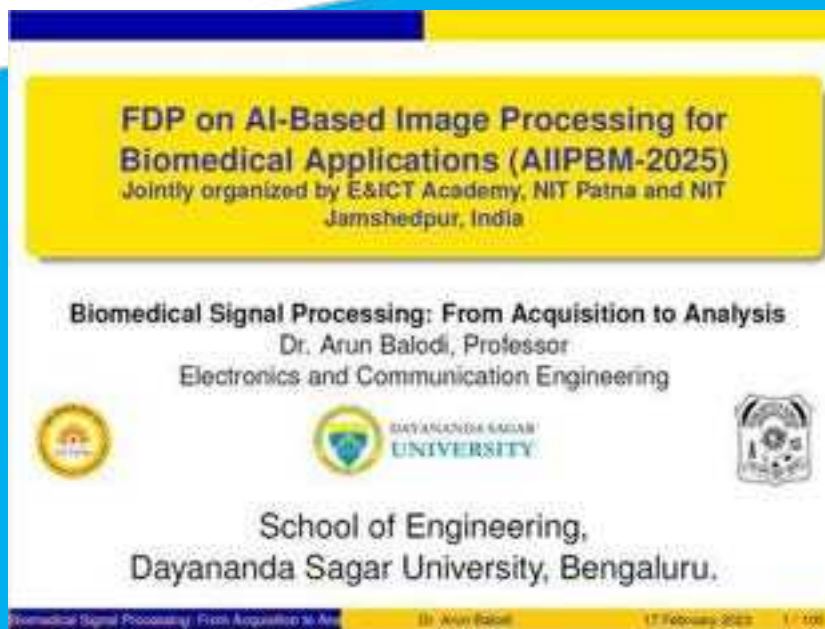
- Dr. Arun Balodi, Professor and Chairman, Department of Electronics and Communication Engineering, School of Engineering, Dayananda Sagar University, Bengaluru, delivered a series of expert lectures during the Faculty Development Program (FDP) titled "Generative AI: Foundations, Applications, and Future Directions". The program was organized by the Electronics & ICT Academy, IIT Roorkee, from November 18 to December 24, 2024.



- Dr. Arun Balodi, Professor and Chairman, Department of Electronics and Communication Engineering, School of Engineering, Dayananda Sagar University, Bengaluru, attended the IEEE SPS Forum on "Green Signal Processing for AI: Balancing Innovation and Sustainability" at HARMAN International, Bengaluru.



- Dr. Arun Balodi, Chairman and Professor, Department of Electronics and Communication Engineering, Dayananda Sagar University, Bengaluru, delivered a session on "Biomedical Signal Processing: From Acquisition to Analysis" on February 17, 2025, at the Faculty Development Program (FDP) on AI-Based Image Processing for Biomedical Applications (AIIPBM-2025).



- Dr. Arun Balodi, Chairman and Professor, Department of Electronics and Communication Engineering, Dayananda Sagar University, has successfully completed the micro-learning module on AI for Entrepreneurship, offered by Atal Innovation Mission (AIM), NITI Aayog, and Intel India on February 27, 2025.





Dr. Divyashree H B
Assistant Professor
Department of ECE

- Dr. Divyashree H B, Assistant Professor, Department of ECE, along with co-authors, Department of ECE presented a research paper titled “Heart disease detection using fundus imaging and ML algorithm” at the International Conference on Innovative Computing & Communication (Scopus Indexed, Springer - ICICC 2025). The conference was organized by the University of Delhi, New Delhi in association with the National Institute of Technology, Patna on February 14-15,2025.





Prof. Puneeth S
Assistant Professor
Department of ECE

- Prof. Puneeth S, Assistant Professor at the Department of Electronics and Communication Engineering, Dayananda Sagar University, successfully completed the AICTE Training and Learning (ATAL) Academy Faculty Development Program (FDP) on Next-Gen Computing: Exploring Supercomputing, AI, and Quantum Technologies.



- Prof. Puneeth S, Assistant Professor at Dayananda Sagar University, successfully completed the AICTE-ATAL Faculty Development Program on "Importance of Artificial Intelligence in Robotics" at IIITDM Kurnool from January 20-25, 2025.





Mr. Sripad Kulkarni
Assistant Professor
Department of AS

- Prof. Sripad Kulkarni S, Nodal Coordinator, Dayananda Sagar University, successfully coordinated the participation of Aerospace Engineering students T Kartik (ENG21AS044) and Vivek Kulkarni (ENG21AS0050) in the ISRO START Programme, an online training course on Space Science and Technology Awareness Training (START). Organized by the Indian Institute of Remote Sensing (IIRS), ISRO Dehradun, as part of its off-campus outreach certificate program, the course was conducted from January 9 to January 29, 2025. The program provided valuable insights into space science, remote sensing, and advanced space technology applications, further enhancing the students' knowledge and skills in the aerospace domain.





Dr. Owais Ahmad Shah
Assistant Professor
Department of ECE

- Dr. Owais Ahmad Shah, Assistant Professor, Department of Electronics and Communication Engineering, Dayananda Sagar University, Bengaluru, has contributed to a research paper published in IEEE Xplore titled "Predictive Modelling of Compressive Strength in Coconut Shell-Embedded Concrete Using Ensemble Regression Models,"

The screenshot displays the IEEE Xplore digital library interface. At the top, there is a navigation bar with the IEEE logo and links for 'IEEE.org', 'IEEE Xplore', 'IEEE SA', and 'IEEE Spectrum'. A search bar is prominently featured in the center, with the text 'All' entered. Below the search bar, the article title 'Predictive Modeling of Compressive Strength in Coconut Shell-Embedded Concrete Using Ensemble Regression Models' is displayed. The publisher is listed as 'IEEE', and there are buttons for 'Cite This' and 'PDF'. The authors are listed as 'Rupesh Kumar Tiwari; Owais Ahmad Shah; Sahil Vats; Ajit Kumar; Anwar Ahmed Khan; Fawaz Vahid'. A sidebar on the right promotes the 'IEEE 802.11ax™: An Overview of High Efficiency Wi-Fi (Wi-Fi 6) eLearning Course Program'. The bottom of the page shows a 'More Like This' section and a 'Feedback' button.



SCHOOL OF ENGINEERING



STUDENT ACHIEVEMENTS

- Ms. Bindu N(ENG22CY0031) has successfully demonstrated proficiency as a Skilled Blockchain Developer at the Time Chain Summer of Code 2024. Through this program, she showcased a strong understanding and seamless integration of Blockchain Technology in Full-Stack Applications. Powered by BSV Blockchain and presented by Time Chain Labs, the Time Chain Summer of Code is a platform for aspiring developers to gain hands-on experience and expertise in blockchain technology.



- Mr. Anirudh N.S. (ENG21CY0007) has successfully completed the CC Domain 5: Security Operations certification on February 18, 2025. This accomplishment reflects his expertise in security operations, threat monitoring, and incident response, essential for maintaining a robust cyber security framework.



- Mr. Anirudh N.S. (ENG21CY0007) has successfully completed the "AI for All: From Basics to GenAI Practice" course in January 2025. This achievement showcases his dedication to mastering both foundational AI concepts and the latest advancements in Generative AI.



- The Dassault Systems La foundation organized an Engineering DESIGN Internship ‘Technical Swym Post Writeup Contest’, in this contest “Dayananda Sagar University” were announced the runners on the topic “Converting multirole multimission drone to 3D Digital twin “This project was carried out by the Students namely Ms. Deepa (ENG21AS0011), Ms. Deeksha (ENG21AS0010), Mr. MG Sai lohith (ENG21AS0021), Mr. Puttana Pujar (ENG21AS033) under the guidance of Dr. Avinash.



- The students from Aerospace Engineering department at DSU namely TANUSHREE S (ENG23AS0020), RIDHIMA JAIN (ENG23AS0014), GAHANA V (ENG23AS0047), Mithun P (ENG22AS0034) participated in GAHANA V Aero India 2025 on 13 & 14 Feb 25. The 15th edition of Asia's premier aerospace and defense exhibition, themed "The Runway to a Billion Opportunities," fostered global partnerships and innovation in aviation. Inaugurated by Defence Minister Rajnath Singh, the event featured cutting-edge aerospace advancements, thrilling aerial displays, and aerobatic stunts, reaffirming its global significance.



- 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. 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 rupees 15000 and also achieved the highest reward for a team from Karnataka.



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



- Ms. Talupula Jahnvi (ENG22CS0478), and Mr. Punith Amilineni (ENG22CS0399), 6th Semester students, along with Dr. Renuka Devi M N, Assistant Professor, 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.



- Mr. Nithesh G (ENG22CS0112), a 5th semester CSE student, successfully completed an online 20-hour AWS Academy Graduate – AWS Academy Cloud Foundations certificate on 12th February 2025.



- 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. Anitha N. (ENG21PCS02), Research scholar, Department of Computer Science & Engineering, under the guidance of Dr. Rajesh T M, Associate Professor, 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.

Dayananda Sagar University: Bangalore
Office of the Dean Research & Innovation

Notification for Ph.D. Public Viva Voce Examination

Printed Date: 21-02-2025

Name of the Scholar: ANITHA N
UIN: 262299C300
Degree / Category: Ph.D. / Full Time
Faculty: School of Engineering
Title of the Thesis: An Automated Framework for Detection and Classification of Pulmonary Diseases in CT Scan Images

Date and Time of Viva Voce Examination: 21-02-2025 at 10 am
Venue: LAB 514 004
Name and Address of the Supervisor: DR. RAJESH T M, ASSOCIATE PROFESSOR, CSE DEPARTMENT, DSU, BANGALORE
Name and Address of the Co-Supervisor: DR. ANITHA N, ASSOCIATE PROFESSOR, DEPARTMENT OF RADIOLOGY, EDSSOMBI BANGALORE
Online Meeting Details: <https://meet.google.com/whj-ndz-tdz>
Dr.RajeshT.M@dsu.ac.in
Dr.AnithaN@dsu.ac.in

Meeting ID: 912 9952 8852
Passcode: 942862

All are cordially invited to attend the Ph.D. Public Viva Voce Examination
Date: 21-02-2025
Place: Bangalore

[Signatures]
Signature of the Supervisor: **Dr. Rajesh T M**
Signature of the Co-Supervisor: **Dr. Anitha N**
Signature of the Chairman: **Dr. Srinika S S**



- Ms. D N Padmashri, Ms. Boomika B, Ms. Deepthi S V, and 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.



- 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 in February 2025.



- ULUKHANOV ANDREY (USN: INTENGAM001) and VORONIN DMITRIL (USN: INTENGAM002), two students from Moscow, Russia, have joined the CSE (AI & ML) department at Dayananda Sagar University as part of the international student exchange program in their 6th semester.



- Mr. Tenzin Kalden (ENG22CS0485), a 5th semester CSE student, successfully participated in the Day 2- 15th February 2025 in the Management: February Series Organized by Unstop.



- Students of the 4th semester (Ms. K R Varshini – ENG23AM0031, Mr. Keerthana T J – ENG23AM0034, Mr. N Rohith – ENG23AM0046, Mr. Nandeesh N B – ENG23AM0047, Ms. Niharika N – ENG23AM0048, Ms. Nishvika Teja Reddy – ENG23AM0050), Dept. of CSE(AI&ML) attended the FOSS Meetup in Mangalore on February 16, 2025, brought together developers, students, and open-source enthusiasts to discuss FOSS and Google Summer of Code (GSoC) 2025. Led by Mohit P. Tahiliani and his core team, the event focused on GSoC's structure, eligibility, and participation process



- Team Trixanth (Mr. Utpal Kumar (ENG22AM0139), Ms. Deekshitha M (ENG22AM0010), Mr. R Sujay (ENG22AM0122), Mr. Akshat Agarwal (ENG22AM0072), Mr. Pushkar Pallav (ENG22AM0187), Mr. K Vamsi Krishna (ENG22AM0102), Ms. Renuka Anil Sutar (ENG22EC0092), Mr. Rohan Susarla (ENG22EC0093), Mr. Rohan Jaiswal (ENG22CS0578), Mr. Mithun P (ENG22AS0034), Ms. Tarita Shetty (ENG23AS1003), Mr. Yogesh V (ENG23AS1002)) from Dayananda Sagar University secured a spot among the top 25 finalists at the prestigious International Rover Challenge (IRC) 2025, organized by the Space Robotics Society from January 28 to February 2 at BITS Pilani. Competing against 100 global teams, they showcased exceptional skill in navigation, autonomy, and communication on simulated Martian terrain. Their performance demonstrated technical excellence, teamwork, and innovation, providing invaluable exposure to cutting-edge space robotics. While official rankings are awaited, their achievement marks a significant milestone for the university.





- Ms. Usha D K, a student from the Electronics and Communication Engineering (ECE) Department has successfully completed the NPTEL Online Certification Course in Digital Image Processing with an outstanding performance of 84% score, ranking in the Top 1% among 3,396 candidates. This 12-week course, offered by IIT Kharagpur through the SWAYAM platform, covered key concepts in image enhancement, restoration, segmentation, and pattern recognition.



- Mr. Jaice Joseph (ENG21CT0011), Mr. Hemal (ENG21CT0009), Mr. Krutharth (ENG21CT0016), Mr. Shashank Hegde (ENG21CT0036) and Prof. Ramandeep Kaur, Assistant Professor published a research article titled “Advancing Medical Imaging with AR: A Survey on transforming 2D images into immersive 3D Models” in GRENZE International Journal of Engineering and Technology in Feb 20. 2025.



- Mr. Sohan (ENG21CT0037), Mr. Likith (ENG21CT0019), Mr. Mallikarjun (ENG21CT0012), Mr. Kaviyarasu (ENG22CT1001) and Prof. Yashaswini, Assistant Professor published a research article titled “Enhanced CNN and Federated Learning Algorithm for Secure and Precise Dermatological diagnosis” in GRENZE International Journal of Engineering and Technology in Feb 20. 2025.



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