



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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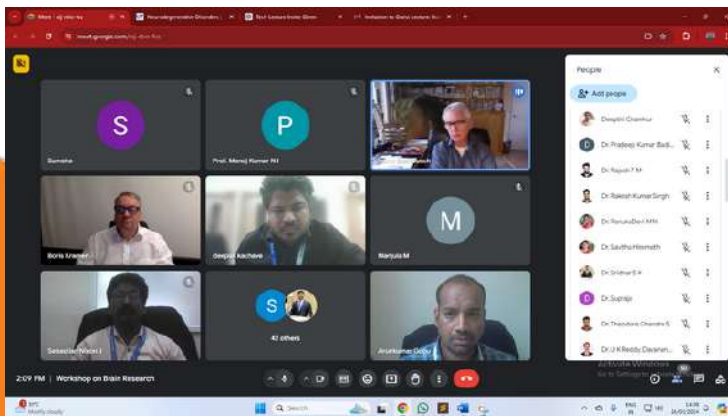
INTERNATIONAL ACTIVITIES

Insightful Lecture on “Brain Research: A Technological Intervention”

The Department of Computer Science and Engineering at Dayananda Sagar University organized an insightful lecture titled "Brain Research: A Technological Intervention" on 24th May 2024 at the Harohalli campus. The lecture was presented by distinguished speakers Prof. Harry W.M. Steinbusch and Prof. Boris Kramer. Prof. Harry W.M. Steinbusch, a renowned expert in Cellular and Translational Neuroscience serves as a Professor at the Faculty of Health, Medicine and Life Sciences, Maastricht University, Netherlands. His extensive knowledge and experience in neuroscience provided the audience with a profound understanding of the latest technological interventions in brain research.

The lecture explored cutting-edge technological advancements in brain research and insights were shared on cellular and translational neuroscience and their implications for health and medicine. Discussions also included the integration of computer science and engineering with neuroscience research.

The event was coordinated by Dr. Arun Kumar Gopu, Associate Professor, whose efforts were instrumental in organizing this successful and enriching experience. The lecture was an excellent opportunity for attendees to gain valuable insights from two leading experts in neuroscience and technology.



Five Days International Workshop on “Evolving Horizons: Synergizing Electric Vehicles, Battery Tech, Robotics and Semiconductor in the Modern Era”

The inaugural function of the International Workshop on "Evolving Horizons: Synergizing Electric Vehicles, Battery Tech, Robotics and Semiconductor in the Modern Era" took place on 20 May 2024 at Lecture Hall 2, Block A, school of Engineering, Dayananda Sagar University. The event began with an invocation song by Miss Soundrya Jois and Mr. Sai Prasad, followed by a traditional lamp-lighting ceremony. The Event was hosted by Ms. K. Sudha Deepthi and Dr. Ankita Chandola. Dr. Vinayak B Hemadri welcomed participants, emphasizing the workshop's relevance in today's technological landscape. Dr. Manish Kumar Mishra outlined the workshop objectives, stressing interdisciplinary collaboration. Chief guests Dr. Anindya Deb and Dr. Wasi Uddin provided valuable insights on the theme. The event culminated with a presidential address by Dr. Udaya Kumar Reddy KR and Dr. Rahul Kumar's vote of thanks.









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WORKSHOPS / SKILL DEVELOPMENT PROGRAMS

Workshop on “EcoDrive: Accelerating Sustainable Electric Mobility”

The event commenced with a warm welcome by Dr. Udaya Kumara Reddy, Dean of the School of Engineering at Dayananda Sagar University. Dr. Reddy set a positive tone for the day, highlighting the significance of the gathering and expressing his excitement for the upcoming sessions. This was followed by an invocation, creating a reverent atmosphere for the day's proceedings.

Dr. V. K. Aatre, an esteemed Indian scientist and former head of DRDO in Bangalore, delivered an inspiring address. Dr. Gopalkrishna Hegde from the Indian Institute of Science, Bangalore, followed with a discussion on current trends in scientific research and the critical role of academic institutions in fostering a culture of inquiry and discovery.

The next address was given by Dr Ramesh R. Galigekere, Professor and Dean of Academics (Science and Technology) of Dayananda Sagar University, Harohalli. Dr. Ramesh provided a comprehensive overview of the science and technology initiatives, motivating students and faculty alike to strive for excellence in their respective fields.

The first distinguished speaker, Prof. Subramaniam S from the Indian Institute of Science, Bangalore, captivated the audience with his presentation on advanced topics in Inorganic and Physical Chemistry. He shared insights from his cutting-edge research, providing valuable knowledge to attendees. After a short coffee break, the second distinguished speaker, Dr. L. Venkatakrishnan, Chief Scientist at the National Aerospace Laboratories in Bangalore, discussed recent advancements in Aerospace Technology, focusing on innovations and future directions in the field. Dr. Ganesh Murthy from Daimler AG, Bangalore, was the third distinguished speaker.



SCHOOL OF
ENGINEERING



DAYANANDA SAGAR
UNIVERSITY

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Devarakagalahalli, Harohalli, Kanakapura Road, Karnataka 562 112

**One-day Workshop on
"EcoDrive: Accelerating Sustainable Electric Mobility"**

11th May, 2024 at 09:30 AM to 04:15 PM

Guests

Prof. Subramaniam Sampath
Professor, Inorganic and Physical
Chemistry, IISc, Bangalore

Dr. Ganesh Murthy CNS
Principal Engineer, Daimler Truck
Innovation Center India, Bangalore

Dr. V. K. Aatre
Indian scientist, Former Head - DRDO
Scientific Advisor - Defence Minister of India.

Dr. I. Venkatakrishnan
Chief Scientist, National Aerospace
Laboratories, Bangalore

Dr. Gopalkrishna Hegde
Indian Institute of Science, Bangalore

Dr Gopalakrishnan Srinivasan
Indian Institute of Science, Bangalore

Conveners:

Dr. Amit Bhatt
Pro-Vice Chancellor, DSU

Dr. Puttamadappa C
Registrar, DSU

Dr. Udaya Kumar Reddy KR
Dean, SoE

Dr. Ramesh B. Galigekere
Dean (Acad) Science and Technology

Vaijyanthi B Desai
Director-Communications
Dayananda Sagar University

Organizers:

Dr. Arun Balodi
Chairperson, Dept. of ECE
Dayananda Sagar University

Dr. Pushpa Mala S
Associate Professor, Dept. of ECE
Dayananda Sagar University



Inauguration: Guests on Dias: (L-R) Dr Udaya Kumar Reddy, Dean, SoE - DSU; Dr S S Murthy, Ex Director, NITK; Dr Gopalkrishna Hegde, Indian Institute of Science; Dr V K Atre, Ex DRDO; Dr Ramesh R Galigekere, Professor & Dean Academics (Science and Technology), DSU; Dr Arun Balodi, Chairperson, Dept. of ECE, SoE-DSU



Valedictory: Guests on Dias (L-R): Guests on Dias: (L-R) Dr Udaya Kumar Reddy, Dean, SoE - DSU; Dr V K Atre, Ex DRDO; Dr Gopalkrishna Hegde, Indian Institute of Science.



Distinguished Speaker: Dr L Venkatakrishnan, Chief Scientist, National Aerospace Laboratories, Bangalore



Address by Dr V K Atre, Ex DRDO



Distinguished Speaker: Dr Ganesh Murthy, Principal Engineer, Daimler Truck Innovation Centre India, Bangalore



Address by Dr Ramesh R Galigeke, Professor & Dean Academics (S&T), DSU



Address by Dr Gopalkrishna Srinivasan, Indian Institute of Science

Workshop on “Building Practical Electronic Circuit-CircuTech”

The Department of Electronics and Communication Engineering (ECE) organized a workshop on building practical electronic circuits (CircuTech) on 03rd May 2024. The workshop enhanced the skills of first-year undergraduate students and gave participants a comprehensive grasp of important topics related to electronics. The primary objective of the event was to equip participants with a holistic view of digital trainer kits, active and passive electronic components and logic gates. The workshop was organized by Prof. Divyashree H. B., Electronics Course Coordinator, Dr. Shirshendu Roy and Dr. Sneha Sharma, Assistant Professors.



The poster for the CircuTech workshop features a dark background with a glowing blue circuit board pattern. At the top, it displays the Dayananda Sagar University logo and name, followed by the address: Devarakaggalahalli, Harohalli Kanakapura Road, Ramanagara, Karnataka 562112. Below this, it identifies the School of Engineering and the Department of Electronics & Communication Engineering. The main title 'CIRCUTECH WORKSHOP ON BUILDING PRACTICAL ELECTRONIC CIRCUIT' is prominently displayed in white and blue. A large '3 MAY' is shown in a stylized font. The event details include the date '3 MAY 2024', time '1:50 PM - 4:30 PM', and location 'A-306'. A 'JOIN' button is at the bottom right. The 'CONVENERS' list includes Dr. Amit Bhatt (In-Charge Vice-Chancellor, DSU), Dr. Puttamadappa C. (Registrar, DSU), and Dr. Udaya Kumar Reddy R.R. (Dean, School of Engineering, DSU). The 'FACULTY COORDINATORS' list includes Dr. Shirshendu Roy (Assistant Professor, ECE), Dr. Sneha Sharma (Assistant Professor, ECE), and Mrs. Divyashree H.B. (Assistant Professor, ECE). A QR code is located at the bottom left.



Workshop on “Arduino”

The Department of Electronics and Communication Engineering (ECE) organized a Hands-on Experience on Arduino on 24th May 2024. The workshop enhanced the skills of first-year undergraduate students and gave participants a comprehensive grasp of the Arduino board and NodeMCU. The primary objective of the event was to equip participants with hands-on experience on Arduino boards and to do various projects using Arduino boards. The workshop was organized by Prof. Divyashree H. B., Electronics Course Coordinator, Dr. Shirshendu Roy and Dr. Sneha Sharma, Assistant Professors.

DAYANANDA SAGAR UNIVERSITY
Dayananda Sagar University
Devarakaggalahalli, Harohalli Kanakapura Road, Ramanagara,
Karnataka 562112

SCHOOL OF ENGINEERING
DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

HANDS ON EXPERIENCE ON ARDUINO

CONVENERS

- Dr. Amit Bhatt
In-Charge Vice Chancellor, DSU
- Dr. Puttamadappa C
Registrar, DSU
- Dr. Udaya Kumar Reddy K R
Dean, School of Engineering, DSU
- Dr. Ramesh R Galligekere
Dean (ACAD) Science & Technology
- Dr. Arun Balodi
Professor & Chairperson - ECE, DSU

FACULTY COORDINATORS

- Dr. Shirshendu Roy
Assistant Professor, ECE
- Dr. Sneha Sharma
Assistant Professor, ECE
- Mrs. Divyashree H B
Assistant Professor, ECE

24 MAY

24 MAY 2024
1:50 PM - 4:30 PM

A-306

JOIN NOW



One-Day Workshop on “Technical Writing”

The Department of Computer Science and Engineering organized an insightful one-day workshop on technical writing on 27th May 2024 at the Harohalli campus of Dayananda Sagar University. The workshop aimed to enhance the technical writing skills of students, focusing on various key aspects essential for their academic and professional development in the field.

The resource person, Ms. Varsha Venkatraman, a technical writer from Nference, led the workshop. Ms. Varsha Venkatraman brought her extensive experience and expertise to the session, providing valuable insights and practical knowledge.

The session emphasized the importance of clear and concise language, proper grammar and the nuances of effective communication in technical documentation. It also explored the impact of Artificial Intelligence on technical writing, including tools that aid in the creation and management of technical documents.

The faculty coordinators of the event were Dr. Rajesh TM, Associate Professor, Prof. Pramoda R, Assistant Professor and Prof. Benaka Santosh S, Assistant Professor.

The poster is for a one-day workshop on Technical Writing. It features the logos of the School of Engineering, Dayananda Sagar University, and the Institution's Innovation Council. The text includes the department name, the workshop title, the resource person's name and photo, a list of topics, the date and time, and the names of the faculty and student coordinators. There are also illustrations of a person with a lightbulb and a person with a document.

SCHOOL OF ENGINEERING DAYANANDA SAGAR UNIVERSITY
School of Engineering
Devarakaggalhalli, Harohalli Kanakapura
Road, DE. Ramanagera, Karnataka 562112

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
ONE DAY WORKSHOP
ON

Technical Writing

RESOURCE PERSON:

Ms. VARSHA VENKATARAMAN
Technical Writer
Nference

TOPICS:

- What is Technical Writing?
- Language and Grammar
- Technical Writing for a typical software product
- AI and Technical writing
- Resumes and Careers

DATE: 27TH MAY, 2024
VENUE: 1H2 A011
TIME: 9:30 AM TO 4PM

CONVENERS:

Dr. Udaya Kumar Reddy K R
Dean - SoE, DSU

Dr. Girisha G S
Professor & Chairperson Dept. of CS&E,
DSU

FACULTY COORDINATORS:

- DR. RAJESH TM
Associate Professor, CSE, DSU
- Prof. PRAMODA R
Assistant Professor, CSE DSU
- Prof. BENAKA SANTOSH S
Assistant Professor, CSE, DSU

STUDENT COORDINATORS:

SHARON ZACHARIAH(9884351500)
JAYSURYA(9059200610)

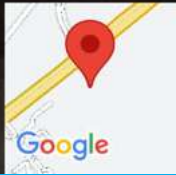


Kanakapura, Karnataka, India
 MC6X+6RP, Kanakapura Rd, Kanakapura, Karnataka
 562112, India
 Lat 12.6621875 / Long 77.4504214
 Monday 27 May 2024 10:05:56



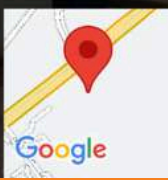
Kanakapura, Karnataka, India

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 562112, India
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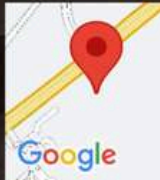
Kanakapura, Karnataka, India

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 562112, India
 Lat 12.6622017 / Long 77.4504075
 Monday 27 May 2024 10:07:16



Kanakapura, Karnataka, India

MC6X+6RP, Kanakapura Rd, Kanakapura, Karnataka
 562112, India
 Lat 12.6621823 / Long 77.4503774
 Monday 27 May 2024 10:18:34





SCHOOL OF ENGINEERING



WEBINARS / SEMINARS / TECHNICAL TALKS

A Guest Lecture by Alumni - “Mr. Janamruth Driving the Future: Trends in Automotive Innovation and Autonomous Mobility”

Mr. Janamruth's talk on "Driving the Future: Trends in Automotive Innovation and Autonomous Mobility" emphasized key advancements in autonomous driving technologies, including radar and LiDAR systems and high-performance computing. He highlighted Continental's commitment to sustainability with innovations like renewable and recycled-material tires and carbon-neutral operations by 2040. The importance of software in modern vehicles was stressed, with developments in high-performance computing systems and virtual ECUs enhancing vehicle functionality and efficiency. Janamruth also noted shifting consumer preferences towards shared and green mobility solutions driven by regulatory and environmental concerns. Speaker: Mr. Janamruth, Technical Architect, MD, Continental Autonomous Mobility (India) Private Limited.





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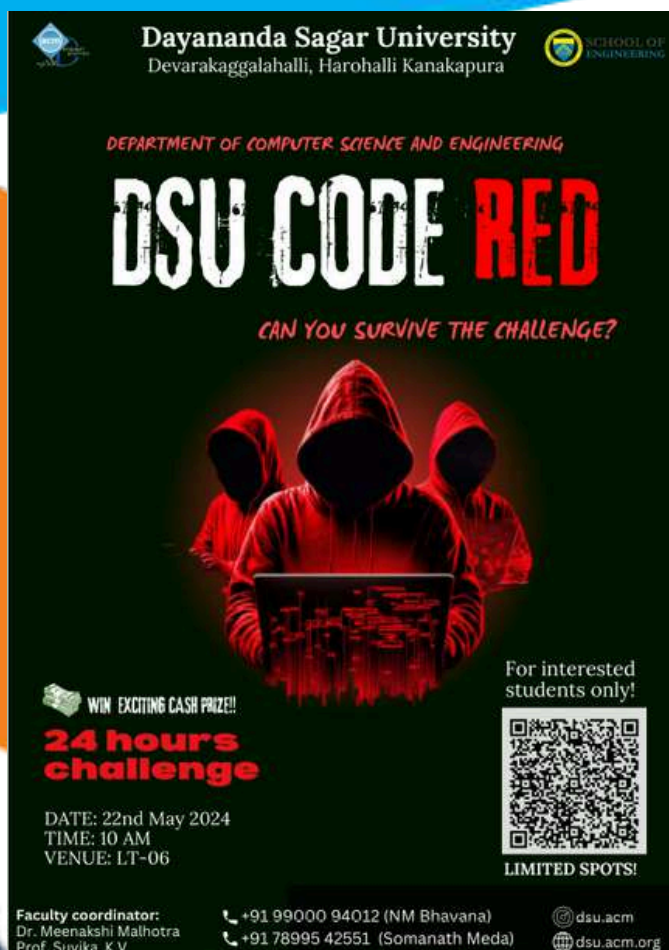


EVENTS: PROFESSIONAL SOCIETIES / CLUB ACTIVITIES

“DSU CODE RED : The Ultimate Web Dev Hackathon”

The Department of Computer Science and Engineering at Dayananda Sagar University has conducted DSU CODE RED, the ultimate web development hackathon. This exhilarating event has taken place on 22nd May 2024 at the Harohalli campus. The event immersed participants in a 24-hour coding marathon filled with energy, enthusiasm and innovation. DSU CODE RED was meticulously designed to push the limits and enhance the coding prowess of the participants through a series of thrilling web development challenges. The event featured multiple elimination rounds, each with increasing difficulty, to identify the top performers. Participants engaged in non-stop coding, tackling complex problems and creating innovative solutions under time pressure. The Faculty Coordinators of the event were Dr. Meenakshi Malhotra and Prof. Suvika K V. Their guidance and support were instrumental in creating an environment where participants could thrive, learn and showcase their skills.

DSU CODE RED was a remarkable event that highlighted the talent and creativity of Dayananda Sagar University's students. It provided an excellent platform for them to demonstrate their web development skills, learn new techniques and network with peers and industry experts.



Dayananda Sagar University
Devarakaggalahalli, Harohalli Kanakapura

SCHOOL OF ENGINEERING

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

DSU CODE RED


CAN YOU SURVIVE THE CHALLENGE?

WIN EXCITING CASH PRIZE!!

24 hours challenge

DATE: 22nd May 2024
TIME: 10 AM
VENUE: LT-06

For interested students only!



LIMITED SPOTS!

Faculty coordinator:
Dr. Meenakshi Malhotra
Prof. Suvika K V

+91 99000 94012 (NM Bhavana)
+91 78995 42551 (Somanath Meda)

dsu.acm
dsu.acm.org



RULES

Registration

No individual registration.
Participants must come in teams of 3.
Total Teams: 37
Teams Eliminated: 12
Teams in Final: 25

Round 1: Red Light, Green Light

Duration: 30 minutes
Objective: Answer 10 questions correctly within 30 minutes.
Elimination: 6 Teams
Description: Answer questions within the time limit while avoiding elimination during the Red Light phase.

Round 2: Honeycomb Challenge

Duration: 1 hour
Objective: Solve web based challenges.
Elimination: 6 Teams
Description: Solve given question in the provided time frame.

Round 3: Tug of War & The Glass Tile Game (Side Quest)

Duration: 18 hours
Objective: Choose a problem statement and provide an optimal solution.
Elimination: No elimination
Description: Choose 1 problem among the given 5 and start working on it.

Round 4: The Squid Game

Duration: Remaining of the 24 hours
Objective: Present finished websites to judges for the ultimate prize.
Description: Impress the judges with a polished and innovative website design. Prizes and Closing Ceremony

Note: Emphasis will be placed on teamwork, creativity, and problem-solving skills throughout the event. Participants will experience the thrill and intensity of Squid Game while showcasing their talents in web development and design.

Kindly abide by the rules and regulations of the event

Get ready to embrace the challenge and emerge victorious in 'Code Red in DSU'!

DEPARTMENT OF COMPUTER SCIENCE
AND ENGINEERING PRESENTS,

DSU CODE RED

WILL YOU RISE OR FALL?

Greetings, code warriors!

- DSUxACM presents DSU Code Red: Can You Survive the Challenge?
- A 24hrs-web-dev challenge designed to unleash your inner innovator.
- Prepare to battle real-world challenges, fueled by caffeine and camaraderie.
- This electrifying event is your chance to push boundaries, collaborate with brilliant minds, and code your way to glory And win Exciting Cash prizes.

ABOUT CODERED :

DSU Code Red: is more than just a competition; it's a crucible for creativity. Here, you'll transform late-night coding sessions into groundbreaking solutions. As DSU fosters innovation and problem-solving, this web-dev challenge aligns with its mission to empower your skills.



DAYANANDA SAGAR UNIVERSITY
SCHOOL OF
ENGINEERING
Deverakoppalahalli, Harohalli
Kanakapura Road

TOP SECRET MISSION:

The exact challenge will be revealed on our social media platform @dsu.acm. (Prepare for anything!) Get ready for a thrilling 24-hour ride!

ASSEMBLE YOUR SQUAD:

- Form a team of 3 elite devs. Remember, teamwork makes the dream work (and wins the prizes)!
- Limited spots available.
- Duration of the event :24-hr [*INTERESTED 1ST/2ND YEAR STUDENTS ONLY*]

RULES & GUIDELINES:

- Event Duration: 24-hour event with breaks.
- Participation: Mandatory engagement in all rounds and activities.
- Judging Criteria: Evaluated on creativity, functionality, adaptability, and problem-solving.
- Elimination: Teams face eliminations based on performance.

VENUE:

Date: 22nd May 2024
Time :10 AM
Venue: Lecture Hall 6

CASHPOOL 7K!!!

Join the Code Red.
Hack the Future.

REGISTER HERE: [REGISTRATION FEE-300/PER-TEAM]



FACULTY COORDINATOR:
DR. MEENAKSHI MALHOTRA
PROF. SUVKA K V

STUDENT COORDINATOR:
SIMANATH MEGA N.M BHAVANA
+91 76935 42951 +91 99000 94012



“Aeronautical Society of India (AeSI) Student Chapter”

The Department of Aerospace Engineering at Dayananda Sagar University Inaugurated the Aeronautical Society of India (AeSI) Student Chapters on 22/5/24. The Aeronautical Society of India (AeSI) was founded on December 27, 1948. Pandit Jawaharlal Nehru, the First Prime Minister of Independent India, became the First Chief Patron of the Society. The purpose is to promote the advancement and dissemination of knowledge of Aeronautical and Aerospace Sciences/Technologies.

Shri V Balakrishnan, Vice Chairman AeSI-BB, Former Executive Director (Engines), HAL, joined as a chief guest and Dr. Saji D, former Chief Scientist, NAL, joined as a Guest of Honour. This event was presided over by Dr. Udayakumar Reddy, Dean SoE, DSU and Dr. Nagaraja SR, Chairman Dept. of ASE, DSU.

The program started with an invocation song and lighting of the lamp followed by the address by Dr. Udayakumar Reddy, Dean SoE and Dr. Nagaraja SR, Chairman Dept of ASE, DSU introduced the chief guest and Shri V Balakrishnan addressed the students as chief guest by briefing on various Aerospace domains where students can focus and develop their career path, provided by Shri V Balakrishnan, Vice Chairman of AeSI-BB. He also emphasized some key points regarding the Aerospace manufacturing sectors and their significance. After his talk, the chief was felicitated by Dr. Vinayak Hemadri, Chairman Dept. of Mechanical Engineering and Dr. Sharatkumar V, Associate Professor, Dept. of ASE, DSU.



“Drone and CanSat event”

The Drone and CanSat event, held on 2nd and 3rd May 2024, commenced with a grand inaugural ceremony, highlighted by the auspicious lighting of the lamp by esteemed chief guest, Dr. S. Rangarajan. This ceremonial beginning was complemented by a melodious inaugural song performed by talented artists, Srilaxmi and Khushika. Dr. Gopal Sharma R. Joshi, Prof. V. V. Srinivasan and Dr. V. K. Hariharan bestowed upon the chief guest a prestigious golden shawl, marking a moment of honor and recognition. Following this, Dr. V. K. Hariharan provided a comprehensive briefing on the competition, setting the stage for the proceedings. Dr. Nagaraja S. R., Dr. Udaya Kumar Reddy and Dr. S. Rangarajan delivered insightful addresses, enriching the gathering with their expertise. The inaugural segment culminated with a gracious vote of thanks delivered by Dr. Prashanthakumar H G.



“ROBO WARS”

ELECTROBLITZ Club Under the Department of Electronics and Communication Engineering of Dayananda Sagar University conducted the National level event ‘ROBO WARS 2024’ on 25th May, 2024 from 9:30 AM onwards under the coordination of Dr. Gayathri K M, Prof. Manasa K R and Prof. Kanmani B S. About 100 students had registered in teams of 3-4 members from various parts. Two rounds of competition were held where the robots had to clear all the obstacles along the track to reach the arena, among 18 teams, finally, 8 teams were shortlisted for the final round for one-on-one fights. The winning teams fought the war in the arena for 5 Minutes. After the battle of 5 minutes team BOB knocked out all other teams and was declared as winners.

Winners:

- Mr. Vishakh Rakshith and Team - 4th Sem, CSE, DSU 1st Prize.

Runners:

- Mr. Sandeep AS and Team - AMCE, ECE, 2nd Prize.
- Mr. Shashi Kumar and Team - 4th Sem, CSE Cluster, DSU, 3rd Prize.
- Ms. Akansha Shetty and Team - Jain University, CSE, Consolation Prize.



ELECTROBLITZ CLUB
Department of
Electronics and Communication Engineering
Presents

ROBO WARS

PRIZE WORTH
OF Rs. 15000/-



Scan here
to register!



- 25th MAY 2024

DSU Campus - 4, Harohalli

RULES AND REGULATIONS

- The team can have a maximum of 4 members.
- The Bots must be a maximum of size 25x25x25 (in Cms)
- The Bots can have obstacle avoiding feature, remote, bluetooth and voice control if desired.
- The Bot can have one modification only for attack and defense.

Scan here
for Detailed
Rules



CONTACT

FACULTY COORDINATORS
Dr. Gayathri K M - 9886498417
Prof. Manasa K R - 7204670180
Prof. Kanmani B S - 9900710775

STUDENT COORDINATORS
Sahana D M - 7338346004
Pavan H D - 9743720918
V Mageshwaran - 9483310513

Registration
Rs. 200/-
per Team



“RAPID TRACER by YANTROVE Club”

The "Rapid Tracer" event, jointly organized by a Robotics Club “Yantrove” & IEEE RAS SBC, DSU, marked a significant convergence of innovation and competition in the realm of robotics. This exhilarating event brought together a multitude of line-follower robots, each meticulously engineered to navigate predefined paths with speed and precision. Over the course of three intense rounds, participants showcased the culmination of their dedication and technical prowess, vying for supremacy in a dynamic arena where every maneuver mattered. The event not only served as a platform for showcasing cutting-edge advancements in robotics but also fostered a spirit of camaraderie and collaboration among enthusiasts and professionals alike. As the competition unfolded, it became evident that the "Rapid Tracer" event stood as a testament to the boundless potential of robotics and the relentless pursuit of excellence within the field.

Winners:

- Team: ETERNATLS, Sri Rajarajeshwari Engineering College
Lokith M R, Suhas Vasistha, Poomani M and Dorechandra

First Runner-up:

- Team: Velocity Viper, Dayananda Sagar University
Pritam Kumar Sahoo

Second Runner-up:

- Team: Alpha Entiti, Dayananda Sagar University
Ujjwal Jaiswal, Vishwas Kumar Keshari, Parth Rathi and Ajeeb Sagar





“PRADARSHINI – 2024: Project Exhibition”

The Department of Mechanical Engineering conducted the “Final Year Project Exhibition – PRADARSHINI – 2024” on 17th May 2024. 44 students from Mechanical Engineering projected their projects and 2 students from CSE have carried out interdisciplinary projects with Mechanical Engineering students. The major domains in which the projects were carried out were Design, Thermal and Materials. The project expo was coordinated by Dr. Viswanathan R., Associate Professor and Dr. Kamalbabu P., Assistant Professor. Our Final Year Mechanical Engineering Students projected brilliant projects that they have carried out in their final semester. Dr. Uday Kumar Reddy, Dean, SOE interacted with our students and gave insights to the students for improvising furthermore of all projects he also appreciated all the students for their brilliant innovative ideas which they have incorporated into their projects. The projects were evaluated by the Industry Expert Dr. Arun M.N, Beta CAE Systems Pvt. Ltd. India.



“Nurturing Nature: Dayananda Sagar University's Tree Plantation Drive”

On May 23, 2024 the Happiness Club of Dayananda Sagar University orchestrated a profound tree plantation drive at Gate 5, a gesture emblematic of our commitment to environmental stewardship. With a clear objective of bolstering the verdant charm of our campus while nurturing a culture of ecological mindfulness, we endeavored to plant twenty fruit-bearing trees, including Chikoo, Guava and Jamun varieties. The event unfolded with a palpable sense of enthusiasm as members of the Happiness Club fervently engaged in the planting process, symbolizing their dedication to preserving the natural world. The presence of esteemed guests, Registrar Dr. Puttamadappa C and Dean of Academics Dr. Ramesh R Galigekere lent credence to our endeavor, their support serving as a beacon of encouragement for all participants.



CST -“PROJECT EXPO -2024”

CST Project Expo 2024 was inaugurated by welcoming the guest Mr. Sathyanarayana B. V., CEO-Derbi by the chairperson Dr. M. Shahina Parveen, Professor, CST, SoE. Chairperson Dr. M. Shahina Parveen addressed the gathering and explained about the event and the work done by the project teams. A total of 09 teams participated in the event and these teams presented their work which covers various domains like E-Commerce, Emergency/Health Care, Education Industry, Consumer App, Security, Logistics and Sustainability. Projected a short video of the project work done by the teams to the audience present at the expo followed by the live demonstrations by the respective teams. Mr. Sathyanarayana B. V., CEO-Derbi addressed the audience by sharing their thoughts on the project expo and appreciated students for their efforts in excelling in their research work in terms of innovative and environment sustainability project works carried out by them and faculty members for providing their guidance and support throughout their work. Faculty members and students from various departments visited the project expo and shared their feedback on the event.



Department of Computer Science and Technology
Cordially invites you for the Project Expo-2024

CST PROJECT EXPO



Date: 03 May 2024
Time: 11:00 AM - 4:00 PM
VENUE: Gallery Hall-1 A-Block

Objectives of Project Expo

A student project expo provides an opportunity for students to display their projects, and research work to a wider audience. This can help students gain recognition for their efforts, build their resumes, and establish themselves as experts in their field.

A student project expo can inspire creativity and innovation by showcasing the latest trends, ideas, and technology in various fields. This can encourage students to think outside the box and explore new ideas and approaches.

Outcomes of Project Expo

Students who participate in a project expo will typically need to present their work to an audience and developed a range of important skills like communication and presentation skills, such as public speaking, visual aids, and explaining complex ideas in a clear and concise manner and gain valuable experience that can benefit them in their academic and professional pursuits.

Patrons

Dr. D. Hemachandra Sagar
Chancellor, DSU
Dr. D. Premachandra Sagar
Pro-Chancellor, DSU
Shri. Galiswamy
Secretary, DSU
Dr. Amit Bhatt
Vice-Chancellor, DSU
Dr. Puttamadappa C
Registrar, DSU
Dr. Uday Kumar Reddy K R
Dean-SOE

Organizers

Dr. Sudha D
Prof. Baskar Venugopalan
Prof. M. Chithambarathanu

Chairperson

Dr. M Shahina Parveen
Professor, CST, SOE

PROJECT EXPO





Bengaluru, Karnataka, India
 Tractored GPS Pvt.Ltd AIC-OSU Innovation Foundation, Hosur Rd, near Kudlu Gate, Kudlu Gate, Srinivasa Nagar, Hal Layout, Singasandra, Bengaluru, Karnataka 560066, India
 Lat: 12.807814°
 Long: 77.641891°
 03/05/24 03:14 PM GMT +05:30



Bengaluru, Karnataka, India
 Sagar IT Park, S T Rd, Kudlu Gate, Srinivasa Nagar, Hal Layout, Singasandra, Bengaluru, Karnataka 560066, India
 Lat: 12.8079°
 Long: 77.642236°
 03/05/24 11:53 AM GMT +05:30

Department of Computer Science And Technology “Farewell day”

The farewell event for Final Year CST students, meticulously planned by 6th semester students, took place on May 25th, 2024. The formal function was graced by Dr.M. Shahina Parveen, CST Chairperson. The event commenced with a group photo session, followed by formal proceedings.

Farewell mementos were distributed to all 8th-semester students as tokens of remembrance. The event was further enlivened by cultural performances and games.

The highlight of the event was the sharing of memory videos by 8th-semester students, followed by a Farewell competition, adding a touch of nostalgia and excitement to the occasion.

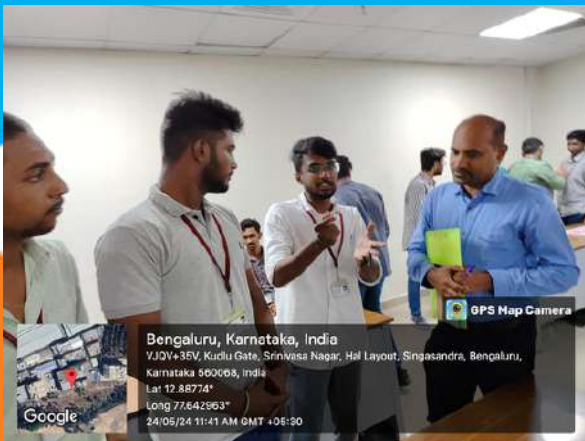




Computer Application-“Project Expo”

The air buzzed with excitement on 24th May 2024 as Dayananda Sagar University's School of Engineering, Department of Computer Application, hosted its annual Project Expo. The event was a testament to the ingenuity and dedication of students from the BCA and MCA departments. A vibrant tapestry of innovative projects, encompassing Machine Learning, AI, Full-Stack Web Development, Mobile App Development and IoT Applications, came to life, transforming the campus into a hub of innovation. The expo commenced with a warm welcome from the conveners, Dr. Uday Kumar Reddy, Dean-SOE, DSU and Dr. Vasanthi Kumari P, Chairperson-CA, setting the stage for a day of intellectual exploration. The event was meticulously planned and executed by organizers, Ms. Padmageetha B G and Dr. R. Kokila, ensuring a smooth and rewarding experience for all participants. Mr. Sajeev Aravindan, the CTO of Vaultedge, served as an expert member, providing valuable insights and inspiring the students. His presence added a layer of prestige and practical guidance to the event, encouraging the students to push their boundaries and think beyond the classroom.

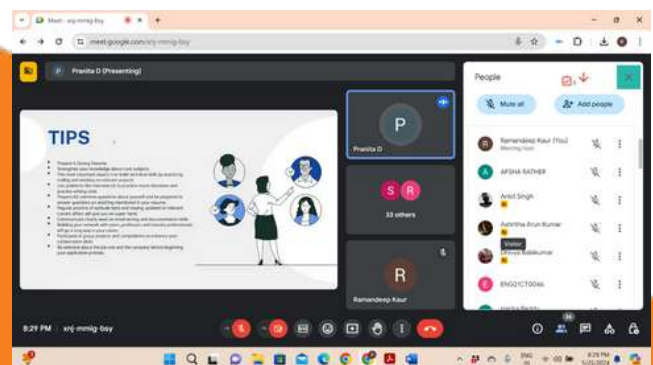
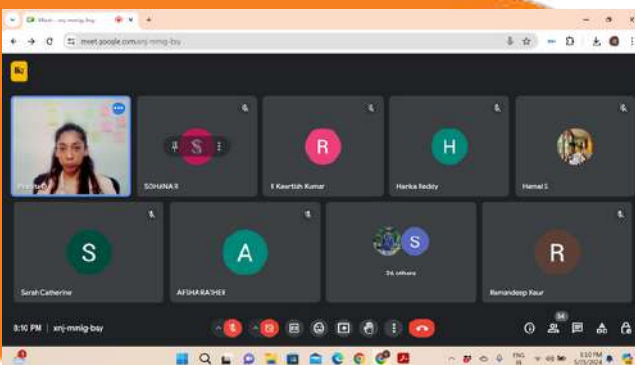
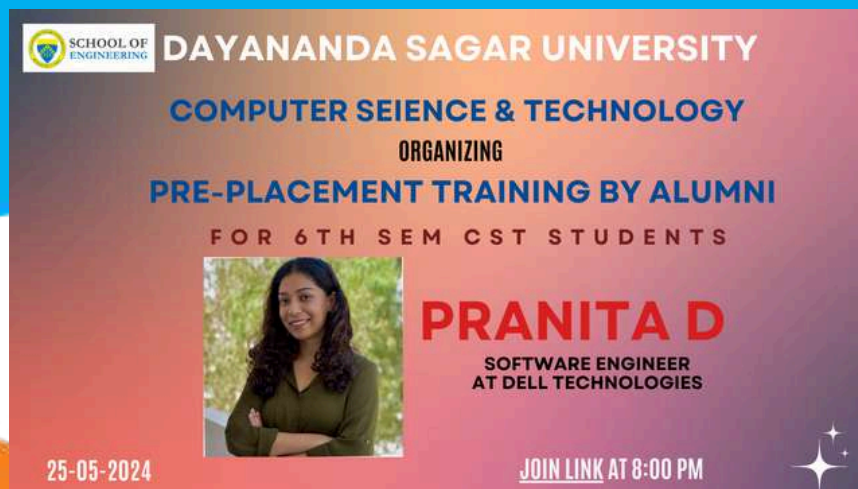




“Pre-Placement Training for 6th semester CST students”

The Department of Computer Science and Technology has organized the third session of the Pre-Placement series for 6th-semester students. The training was organized by Prof. Baskar Venugopalan, Professor of Practice CST and Prof. Ramandeep Kaur, Assistant Professor, CST. This training started as a series where the alumni of the CST department share their experience with current students and provide them with necessary knowledge about the training. The third session of this training was delivered by Ms. Pranita D, Software Engineer, Dell Technologies.

The training started at 08:00 pm with a welcome note to Ms. Pranita D by Prof. Ramandeep Kaur. Student Sohana introduced Ms. Pranita D and handed over the session to the speaker. Ms. Pranita D started her session with a small interaction with students and later she explained how to prepare for placement and why it is important.



“The Horror Storytelling Competition by The Literary Society”

The Horror Storytelling event was successfully conducted on 27th May in Lecture Hall 3. The event provided an engaging platform for students to either participate as storytellers or enjoy the eerie atmosphere as audience members. The event was designed to immerse attendees in a spooky ambiance and it succeeded in captivating everyone present. The event was further enriched by the support of the "Echoes of Lumière", the Filmmaking club, SOE. Their expertise in night photography helped capture the essence of the event, ensuring that the spooky atmosphere and the participants performances were well-documented. Their contribution was invaluable in making the event memorable and visually appealing.



“Hands-on Filmmaking Workshop by The Echoes of Lumiere”

The Echoes of Lumière conducted a hands-on workshop on Filmmaking on 23rd May, 2024 from 2:00 PM to 4:20 PM in Lecture Hall 5. The workshop focused on key Filmmaking techniques, including lighting, color theory, composition and camera techniques. It was attended by 45 students from the School of Engineering (SoE). The hands-on Filmmaking workshop was a significant success. It met its objectives of imparting practical knowledge and fostering creativity among participants. The positive feedback reflects the value of the workshop and suggests a strong interest in future events. Through this workshop, students were able to develop their eloquence and implement theoretical concepts in an outdoor setting. Through interactions, students were able to effectively and convincingly communicate their ideas and thoughts. Students acknowledged the importance of effective communication in a variety of contexts such as everyday encounters, professional presentations and public speaking.



“Aero Project Expo 2024”

The Department of Aerospace Engineering of Dayananda Sagar University organized an Aero Expo 2024 on 17th May, this activity was based on a Major project Carried out by the Students from the Final year (2020-2024 batch). Around 12 projects related to the Aero domain were exhibited by the final year students which were based on the concept of continuous learning in this context students designed and developed the prototypes which were converted into a typical model. We would like to thank Dr. Saji former Chief Scientist from NAL for his presence who was the external reviewer who motivated the students very well. At last, we want to thank the Aeronautical Society of India (AESI) for their support of this event and would like to thank all the final year students, teaching and non-teaching staff of the Department of Aerospace Engineering at Dayananda Sagar University for the smooth conduct of this event.



“Soldering Competition by Electroblitz Club”

ELECTROBLITZ Club under the Department of Electronics and Communication Engineering of Dayananda Sagar University conducted the event soldering competition on 3rd May 2024 from 2:00 PM onwards Analog Electronics lab. There were 17 teams with a size of 4. The required components and circuit to be built were provided by the organizers. The participants were expected to solder the circuit and show their results on a board and identify the application.

- 1st Prize: Mr. Phani Kumar and Team, Second Year, Dept of ECE.
- 2nd Prize: Mr. Shahsi Kumar and team, First year, Dept of CSE(DS).
- 3rd Prize: Usha D and Team, Second Year, Dept of ECE.

The poster features logos for Dayananda Sagar University, Institution's Innovation Council, and School of Engineering. The text reads: 'DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING ELECTROBLITZ CLUB Presents SOLDERING COMPETITION "Ignite Innovation, Solder Perfection!"'. It includes rules: '1. Each team can have a maximum of 3 members 2. Registration fee: 100/- per team'. Contact details: 'Vinod Ganiger : 9483758424 Shreeraksha Nayak : 7022455909'. A QR code is provided for registration. Event details: 'AEC LABS 3rd May, 2024 2.00-4.00 P.M'.



“Project Extravaganza”

The Department of Electronics and Communication Engineering (ECE) hosted the Final Year Project Exhibition, Project Extravaganza-2024, on May 20th, 2024. Dr. Saara K, Professor and Dr. Mukti C, Assistant Professor of the Dept. of ECE, led the organization of the event. Showcasing the innovative solutions and technical expertise of 8th-semester students, the exhibition was a testament to their academic journey. DSU-ECE Alumna, Ms. Vijeta Bhat, a Post-Silicon Validation Engineer at Google, provided expert guidance. Faculty members from the Department of ECE actively participated in the exhibition. The top three project groups were announced with the 1st position secured by Indhushree D, Hitesh K, Krishnakumar G and Gangadhar K. G. under the guidance of Mrs. Shwetha M. P., Assistant Professor, ECE. The 2nd position was clinched by Pavan H D, Yakshitha M and Sridhar B. A. under the guidance of Mrs. Manasa K. R., Assistant Professor, ECE. The 3rd position was secured by Ashwin J, Banu Prasad B, Mamillapalli Punith Vinay Rao and Muheez H. J., under the guidance of Dr. Saara K, Professor, ECE, with each project batch earning cash prizes of Rs. 2000, Rs. 1000 and Rs. 500 respectively.



DAYANANDA SAGAR UNIVERSITY
Department of Electronics & Communication Engineering

IEEE DSU
Student Branch

Organizing
PROJECT EXTRAVAGANZA 2024

20th MAY 2024,
09:30 AM-3:30 PM

Venue: F141 & F142, B Block, DSU, Kudlu Gate, Bangalore

Guidelines:
Students must prepare an A3 size poster and exhibit a demo of their projects.

Contact Us
Project Coordinators
Dr. Saara K, 9620461641
Dr. Mukti C, 9008001842

Organizing Committee
Team ECE

Conveners
Dr. Uday Kumar Reddy K R
Dean - School of Engineering
Dr. Arun Balodi
Chairperson, ECE

Expert: DSU-ECE Alumna
Ms. Vijeta Bhat
Post-Silicon Validation Engineer
Google



Bengaluru, Karnataka, India
 HITECHROOT, 3rd Floor, 1st Block, Dayananda Sagar University Building, Horgasandra Village, Begur Hobli, Hosur Rd, Kudlu Gate, Srinivasa Nagar, Hal Layout, Singasandra, Bengaluru, Karnataka 560068, India
 Lat 12.887579°
 Long 77.642201°
 20/05/24 10:40 AM GMT +05:30



Bengaluru, Karnataka, India
 HITECHROOT, 3rd Floor, 1st Block, Dayananda Sagar University Building, Horgasandra Village, Begur Hobli, Hosur Rd, Kudlu Gate, Srinivasa Nagar, Hal Layout, Singasandra, Bengaluru, Karnataka 560068, India
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Bengaluru, Karnataka, India
 TrackNerd GPS Pvt Ltd AIC-DSU Innovation Foundation, Hosur Rd, near Kudlu Gate, Kudlu Gate, Srinivasa Nagar, Hal Layout, Singasandra, Bengaluru, Karnataka 560068, India
 Lat 12.887854°
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Bengaluru, Karnataka, India
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Bengaluru, Karnataka, India
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 Long 77.643026°
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ECE- “Final year Farewell”

The Farewell event for Final Year ECE students, meticulously planned by 6th semester students, took place on May 17th 2024. The formal function was graced by Dr. Arun Balodi, ECE Chairman, Vijay Kumar S, Deputy Director of Training, Placement & Skill Development, Dr. Theodore Chandra S, Associate Professor of ECE and Dr. Saara K, Professor of ECE. The event commenced with a group photo session, followed by formal proceedings. Mr. Vijay presented an outstanding student award to Ms. Sahana DM, an 8th-semester student, recognizing her exemplary achievements. Farewell mementos were distributed to all 8th-semester students, including international students Mr. Vladimir and Mr. Maksim from MIET Russia, as tokens of remembrance. The event was further enlivened by cultural performances, including dance, singing, a fashion show and games. A delicious lunch was served, fostering camaraderie and shared memories. The highlight of the event was the sharing of memory videos by 8th-semester students, followed by a Farewell competition, adding a touch of nostalgia and excitement to the occasion.



CSE- “PROJECT EXPO 2K24”

The Department of Computer Science and Engineering (CSE) at Dayananda Sagar University has organized PROJECT EXPO 2K24, a project exhibition featuring the innovative works of 8th-semester CSE students. The exhibition was held on the 17th of May 2024 at the Kudlu Gate campus, Dayananda Sagar University. The external Jury Members were Mr. Mihir Mohanty, VP - Data and Analytics at State Street Corporation and Miss Rajeshwari H S, Innovation Manager, Business Area Architecture and Networking, Continental India Pvt. Ltd. The Conveners of the event were Dr. Girisha G S Chairperson CSE, Dr. Meenakshi Malhotra, Project Coordinator and Associate Professor and Prof. Mohammed Khurram J, Project Coordinator and Assistant Professor.



DAYANANDA SAGAR UNIVERSITY
Kudlu Gate, Hosur Main Road, Bengaluru-560114
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Project Expo-2k24



Experts Panel



- **Mihir Mohanty**
VP - Data & Analytics at State Street Corporation
- **Rajeshwari H S**
Innovation Manager, Business Area Architecture & Networking, Continental India Pvt.Ltd

Greeting from us!

For 8th Semester CSE Dept Students Project Exhibition.



Date & Venue
17.05.2024 - B-Block
Exhibition - F139 & F140
From 9:30am - 3:30pm

Conveners

Dr. Udaya Kumar Reddy K. R
Dean-SOE, DSU
Dr. Girisha G S
Chairperson CSE, SOE, DSU
Prof. Mohammed Khurram J
Project Coordinator & Assistant Prof. CSE, DSU
Dr. Meenakshi Malhotra
Project Coordinator & Associate Prof. CSE, DSU

Faculty Coordinators

Dr. Revathi V
Associate Professor , CSE, DSU
Dr. Basavaraj N Hiremath
Prof. & Final year coordinator, CSE, DSU
Dr. Pramod Kumar Naik
Associate Professor CSE, DSU
Dr. George Fernandez
Associate Professor CSE, DSU
Dr. Gousia Thahniyath
Assistant Professor CSE, DSU
Prof. Savitha Vijay
Assistant Professor CSE, DSU

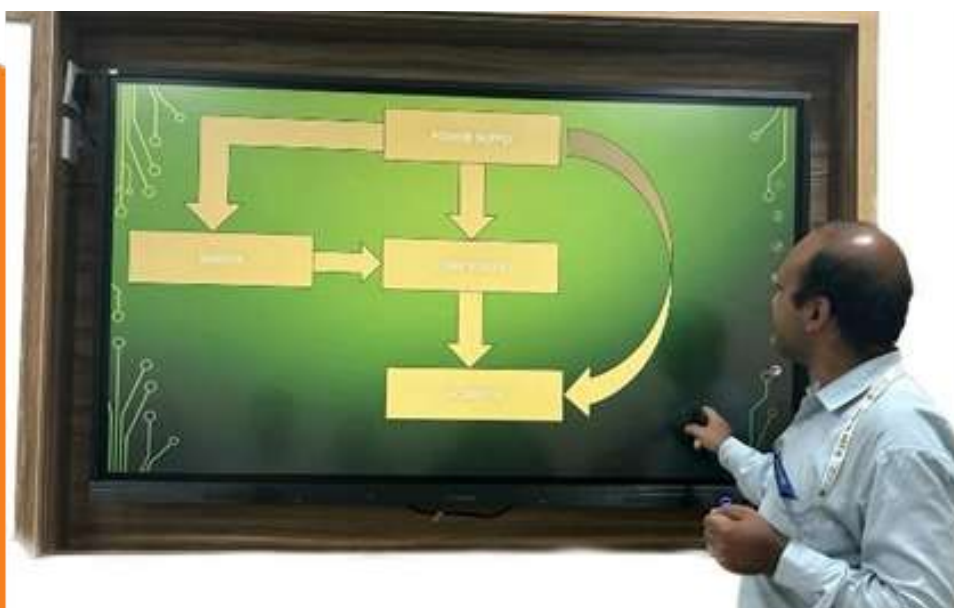
Student Coordinator

Kishore Kumar K, 8th Sem CSE, DSU



BRAINSTORMING SESSION ON “Exploring the Societal Impacts of Robotics”

A brainstorming Session was conducted for the faculties and the students by the Department of Mechanical Engineering. The event was led by Dr Vinayak B Hemadri HOD of Mechanical Engineering and Dr. Joy Mondal coordinated. The topic touches upon various aspects of society, including economics, ethics, social structures and daily life. The brainstorming session offers insightful information on a variety of topics, including social dynamics, environmental repercussions and ethical and economic issues.



“MOU signing with ARAI-AMTIF: Advance Mobility Transformation And Innovation Foundation (AMTIF)”

The signing of the Memorandum of Understanding (MOU) between Dayananda Sagar University (DSU) and ARAI-AMTIF (Advance Mobility Transformation and Innovation Foundation) took place with the Registrar of DSU and the CEO of ARAI-AMTIF formalizing the agreement. The ceremony was held in the presence of Dr. Vinayak B Hemadri, Chairperson of the Department of Mechanical Engineering at DSU and Dr. Manish Kumar Mishra. This MOU signifies a commitment to collaborative efforts in research, innovation and development in the fields of electric vehicles, battery technology, robotics and semiconductors.



“Placement Training Session Module on Resume Writing / Group Discussion / Mock Interviews/ Grooming for interviews”

Under the DataScience@DSU club, the Department of CSE (Data Science) organized “Placement Training Session Module on Resume Writing / Group Discussion / Mock Interviews/ Grooming for interviews” on 6th May 2024 from 8:45 am to 4:45 pm organized by the Deputy Director – Placement Mr. Vijay Kumar S, Chairperson Dr. Shaila S G, Department of CSE (Data Science), the event targeted 6th-semester B.Tech students. The purpose of the session was to equip participants with the essential skills and knowledge required to excel in team environments and foster effective interpersonal relationships in professional settings.

The session commenced with a comprehensive discussion on presentation skills. The facilitator elucidated the key factors that HR personnel typically observe during presentations, including body language, confidence level, language proficiency and eye contact. Furthermore, the facilitator provided insights into resume building, distinguishing between resumes, CVs and biodata and elucidating their respective purposes and formats. Subsequently, a debate was initiated on the topic of whether international or Indian food is preferred by Bengalurians. This debate served as a platform for participants to apply their presentation skills, articulate their arguments persuasively and engage in constructive dialogue.

The session aimed to enhance the participants skills in presentation, resume building and group discussion techniques. It focused on aspects such as body language, confidence, language proficiency, eye contact and the ability to articulate thoughts effectively.



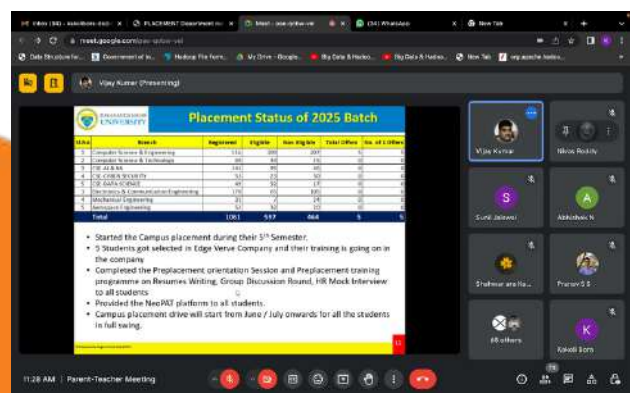
“Parents and Teachers Meeting”

Dr. Shaila S G, Chairperson and Dr. Kakoli Bora, Associate Professor, delivered a formal welcome address to parents, emphasizing the significance of “Parent-Teacher meetings” for both students and the organization. Attendance requirements were reviewed, stressing the necessity of maintaining an 85% attendance record across all courses to be eligible for SEE exams. The split-up scheme of 60:40 was briefly explained to the attendees (6th and 8th semester).

Prof. Vijay Kumar provided insights into the university's placement activities, covering eligibility criteria, company expectations, interview preparation and the utilization of NeoPAT. Parental inquiries regarding placement were addressed. The importance of maintaining a good CGPA and SGPA was emphasized, underscoring their role in facilitating participation in placement opportunities and training sessions.

Recent placement statistics were shared, indicating an impressive placement rate of approximately 80% for the 2024 Data Science batch. The highest package offered was 8.5 LPA, with an average package of 3.5 LPA. The university's adoption of best learning practices, such as project-based learning, was highlighted as a means to enhance student engagement and learning outcomes.

Overall, parents expressed gratitude for the opportunity to connect with teachers and discuss their child's progress during the PTM, highlighting the importance of building a strong partnership between home and College to support student success.



“IOT - Mind Spark 2024”

The DataScience@DSU Club, under the guidance of the faculty coordinators Dr. Shaila S G, Professor and Chairperson, Dept. of CSE(DS), Prof. Shivamma D and Prof. Monish L, successfully organized the “Mindspark 2024: Data Science Solutions for Cutting Edge IOT Problems” Project Expo on 20th May 2024 at the Harohalli Campus, A410, A Block.

The event aimed to showcase the innovative projects developed by 4th-semester students from the Department of Computer Science and Engineering (Data Science) at DSU.

Student-prepared project prototypes addressing real-world issues in IOT, Cyber Security and Embedded Systems drew interest from university officials and students. With 60 participants showcasing more than 20 projects, the Project Expo highlighted the creativity and skills of the students.

Winners:

1st Prize: Virika Olivia Soans, Janardhan K S and Sanjana T
Title: “Agriculture in Digital Era Smart Strategies with Integrated IOT” under the guidance of Prof. Shivamma D

2nd Prize: Anshuman, Nemkal Harsha Vardhan and Priyanka Bai B K
Title: “Human Following Robot” under the guidance of Prof. Shivamma D

3rd Prize: 1. Nitin Prajwal R, Vinuraj Vamshi and Sujeeth Kumar
Title: “Intellichain IOT” under the guidance of Prof. Monish L

2. Pavan Kumar G, KurubaVeeresh and Chethan Kumar S
Title: “Water Level Monitor” under the guidance of Dr. Shaila S G

DAYANANDA SAGAR UNIVERSITY
Devarakaggalahalli, Harohalli, Kanakapura Road Ramanagara Dt., Bengaluru - 562 112

SCHOOL OF ENGINEERING

Department of Computer Science and Engineering (Data Science)
In association with **DataScience@DSU Club**
Is Organising Project Expo

"Mindspark - 2024"
Data Science solutions for Cutting Edge IOT Problems

Date: 20th May, 2024 @ 11:00 am - 3:40 pm
Venue: A410, A Block, SOE, DSU

Conveners
Dr. Amit Bhatt, Vice Chancellor, DSU
Dr. Ramesh R. Galgeker, Dean (Acad) Science and Technology
Dr. Udaya Kumar Reddy KR, Dean, SoE
Dr. Shaila S G, Chairperson, Dept. of CSE (DS)

Faculty Co-ordinators: Prof. Shivamma D and Prof. Monish L



“Technical Writing in Multilingual Contexts”

The DataScience@DSU Club, the Department of CSE (Data Science) organized a Workshop on Technical Writing in Multilingual Contexts held on 23rd May 2024 organized by Prof. Monish L, Assistant Professor, Dept. of CSE (Data Science) and Prof. Shivamma D, Assistant Professor, Dept. of CSE (Data Science).

The workshop on Technical Writing in Multilingual Contexts, organized by the DataScience@DSU Club and the Department of CSE (Data Science) on 23rd May 2024 shed light on the intricacies of producing high-quality technical documentation for diverse audiences. Led by Prof. Monish L and Prof. Shivamma D, Assistant Professors in the Department of CSE (Data Science), the event underscored the importance of a systematic approach to writing research papers.

Dr. Shaila's contribution to the talk on technical writing in multilingual contexts encapsulated the importance of a systematic approach to writing research papers. Dr. Shaila's guidance provided attendees with practical strategies to navigate the complexities of multilingual technical writing, ensuring clarity, accuracy and adherence to scholarly standards in their research papers.



PROJECT EXPO “PROJECT PULSE 2024”

The DataScience@DSU Club, under the guidance of the faculty coordinators Dr. Shaila S G, Professor and Chairperson, Dept. of CSE(DS), Dr. Kakoli Bora and Prof. Manjula M, successfully organized the “Project Pulse 2024: Data Science Solutions for Cutting Edge Problems” Project Expo on 27th May 2024 at the Kudlu gate Campus, G033, B Block.

The event aimed to showcase the innovative projects developed by 8th-semester students from the Department of Computer Science and Engineering (Data Science) at DSU.

The event was promoted effectively through various channels, including posters and email newsletters, under the direction of the faculty coordinators. Their guidance ensured maximum outreach within the DSU community and beyond, resulting in a strong turnout of attendees

Expert panel members:

- Dr. Gopalasharma Joshi, Professor, CSE, SoE, DSU.
- Prof. Bhaskar Venugopalan, Professor of Practice, Dept of CST, SoE, DSU.



Dayananda Sagar University
School of Engineering, Kudlu Gate, Hosur road
Bengaluru - 560068

**Department of Computer Science and Engineering
(Data Science)**

Organizing "PROJECT PULSE" a Project Expo

EXPERT PANEL:
Dr. Gopalasharma Joshi, CSST
Prof. Bhaskar Venugopalan, GST

Date & Time:
27.05.2024
@ 2:00PM-4:30PM

Venue:
G033, B Block, Campus 3

Event Convener:
Dr. Anil R Bhatt
Vice Chancellor, SoE, DSU
Dr. Udaya Kumar Reddy K R
Dean, School of Engineering, DSU

Organizers:
Dr. Kakoli Bora
Associate Professor
Dept. of CSE(DS), SoE, DSU

Co-ordinators:
Prof. Manjula M
Prof. Shahvar Aru Kamal S

Dr. Shaila S G
Chairperson, Dept. of CSE(DS)





SCHOOL OF ENGINEERING



FACULTY ACHIEVEMENTS



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

- Dr. M. Shahina Parveen published a patent on “Ceiling fan with an embedded Speaker” Application Number: 412554-001.
- Dr. M. Shahina Parveen published a patent on “A wireless charger-power bank” Application Number: 412557-001.
- Dr. M. Shahina Parveen published a patent on “Customised Flower Shaped Study Lamp” Application Number: 412558-001.
- Dr. M. Shahina Parveen published a patent on “Trapezium-Shaped Power bank” Application Number: 412553-001.
- Dr. M. Shahina Parveen published a patent on “Wireless Headset with No Headban” Application Number: 412552-001.
- Dr. M. Shahina Parveen published a patent on “Anadigic Timepiece” Application Number: 412556-001.
- Dr. M. Shahina Parveen published a patent on “DETACHABLE FOOTWEAR STRAPS” Application Number: 412556-001.

- Dr. M. Shahina Parveen has judged the DSU CODE RED (24 Hours Web -Dev Challenge) contest organized by the Department of Computer Science and Engineering, DSU, Harohalli.



- Dr. M. Shahina Parveen attended a talk event in AT&T TECHNOLOGY AND LEADERSHIP talks on 14th May at Vivanta Taj, ITPB Whitefield Main Road, Bengaluru.





Dr. Saara K
Professor
Department of ECE

- Dr. Saara K has published a research paper titled "An FBG-based Optical Pressure Sensor for the Measurement of Radial Artery Pulse Pressure" has been successfully published in the SCI Journal of Biophotonics, a Q2 journal with an impact factor of 3.2, published by Wiley.

Received: 2 March 2024 | Revised: 15 April 2024 | Accepted: 17 April 2024
DOI: 10.1002/jb.202400083

Check for updates

RESEARCH ARTICLE

JOURNAL OF BIOPHOTONICS

An FBG-based optical pressure sensor for the measurement of radial artery pulse pressure

Ranjith B. Gowda^{1,2} | Preeta Sharan³ | Saara K¹ | Mona Braim⁴ | Abdullah N. Alodhayb⁴

¹Department of Electronics & Communication Engineering, SOE, Dayananda Sagar University, Bangalore, India
²Department of Electronics & Communication Engineering, Government Polytechnic Serah, Shimoga, India
³Department of Electronics & Communication Engineering, The Oxford College of Engineering, Bangalore, India
⁴Department of Physics and Astronomy, College of Science, King Saud University, Riyadh, Saudi Arabia

Correspondence
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Funding information
Author ANA acknowledges Researchers Supporting Project number (RSP2024R304), King Saud University, Riyadh, Saudi Arabia

Abstract
One of the diagnostic tool for clinical evaluation and disease diagnosis is a pulse waveform analysis. High fidelity radial artery pulse waveforms have been investigated in clinical research to compute central aortic pressure, which has been demonstrated to be predictive of cardiovascular diseases. The radial artery must be inspected from several angles in order to obtain the best pulse waveform for estimate and diagnosis. In this study, we present the design and experimental testing of an optical sensor based on Fiber Bragg Gratings (FBG). A 3D printed device along with the FBG is used to measure the radial artery pulses. The proposed sensor is used for the purpose of quantifying the radial artery pulse waveform across major pulse position point. The suggested optical sensing system can measure the pulse signal with good accuracy. The main characteristic parameters of the pulse can then be retrieved from the processed signal for their use in clinical applications. By conducting experiments under the direction of medical experts, the pulse signals are measured. In order to experimentally validate the sensor, we used it to detect the pulse waveforms at Guan position of the wrist's radial artery in accordance with the diagnostic standards. The findings show that combining optical technologies for physiological monitoring and radial artery pulse waveform monitoring using FBG in clinical applications are highly feasible.

KEYWORDS
FBG, pressure sensor, pulse pressure, pulse waveform analysis, radial artery pulse

1 | INTRODUCTION

One of the frequently applied technology for developing sensors for use in medicine is fiber Bragg grating (FBG) [1]. Multiplexing ability, high sensitivity, less weight and size, and tolerance to electromagnetic interference are few of the benefits of FBG sensors. Additionally, because there is no electrical current at the detecting location, FBG can be effectively used in humid environmental conditions [1, 2]. The development of photonic crystals and FBG sensors for medical applications has advanced quickly over the past few decades, from the instrumentation of surgical tools [3–12], to the creation of wearable clothing [13–15], pressure [16], temperature [12, 17], and bio-sensing

J. Biophotonics. 2024;e202400083.
<https://doi.org/10.1002/jb.202400083>

www.biophotonics-journal.org

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- Dr. Saara K has published a research paper titled "Pixelated Large Area rGO on Silicon-Based X-Ray Detector" in the renowned journal *Physica Scripta*, a Q2 journal, published by IOP Science.



PAPER

Pixelated large area rGO on silicon based x-ray detector

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17 May 2024

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Keywords: X ray detector, rGO, pixelated area, large area detector, low temperature

Abstract

In this work, the possibility of using reduced Graphene oxide for x-ray detection has been explored. A highly conductive reduced Graphene Oxide (rGO) synthesized using a hybrid method was used to fabricate a pixelated Si/SiO₂ bottom gate field effect transistor. The fabricated device is a 3 × 3 pixelated large area detector and was tested for its response to x-rays at room temperature and low temperatures by irradiating it with x-rays from top. Significant change in resistance of rGO is observed during irradiation which shows its sensitivity to x-rays.

Introduction

X-ray detectors are available in different configurations for a variety of applications. Each type of detector has certain advantages and disadvantages. Semiconductor detectors based on silicon, germanium, cadmium telluride, provide good spectral resolution. They need to be cooled to low temperatures and also, large area detectors having high performance are difficult to make and are expensive. On other hand, scintillation detectors are used for high energy gamma detection, but do not provide high spectral resolution.

An easy to fabricate, large area, high performance detector is of interest in many applications like in medical imaging, space astronomy, etc. Few studies carried out on Graphene/rGO material for x-ray detector applications have shown its potential as x-ray detector [1]. Since the time Graphene was discovered, it has attracted the attention of researchers all over the world [2–5]. Due to the exceptional optoelectronic properties of Graphene, a lot of research is being done in the field of optics [6–8]. Graphene is slowly occupying the electronics market and its applications have touched almost all fields of day-to-day life [9–16]. Even Graphene derivatives have shown promising possibilities in various areas of optics, wearable electronics, etc [17–25]. Graphene and Graphene derivatives-based detectors are known to work well in various regions of the electromagnetic spectrum like tetrahertz, infrared, visible and UV, and have already been reported [26–31]. Amongst the Graphene derivatives, reduced Graphene Oxide (rGO) is one such material which has been used in many applications like temperature sensing, stress sensing, pressure sensing, radiation sensing etc, because of its Graphene like properties and its ease of synthesis as compared to CVD Graphene [32–36]. Synthesis of Graphene using CVD technique is a multistep and time taking process which requires annealing, growth, cooling, and patterning. Transferring CVD Graphene onto desired substrate also has associated difficulties.

Also, large area detectors having high performance are difficult to make and are expensive. Scintillation detectors are another type of detectors used for gamma detection, but they are bulky with not so high spectral resolution. GFETs can be made pixelated as well as fabricated in large area. They are high performing inexpensive detectors which can be mounted at various locations in the spacecraft. Hence a portable, inexpensive radiation detector which works at room temperature with good energy resolution is a strong contender for space applications where weight is a major constraint. Graphene over silicon-based x-ray detectors reported so far have not shown any response at room temperature [37, 38]. Amongst the radiation



Dr. Deepthi Chamkur V
Assistant Professor
Department of ECE

- Dr. Deepthi Chamkur V has participated in a faculty development program for 3 days on “Researcher Identifiers to Enhance Research Visibility”, organized by the Department of Library and Information Centre, in association with the NDCLI club, BIT, Bangalore from 22nd – 24th April 2024.



- Dr. Deepthi Chamkur V has participated in a faculty development program for 5 days on “Microwave Photonics Enabled Wireless Communication for Advanced Systems”, organized by the School of Electronics Engineering, VIT from 01st – 05th April 2024.



Dr. N.S. Venkataramanan
Associate Professor
Department of Chemistry

- Dr. N.S. Venkataramanan published a paper titled “Unveiling the Intermolecular Interactions between Drug 5-Fluorouracil and Watson–Crick/Hoogsteen Base Pairs: A Computational Analysis” as Research Article in the ACS Omega, (with Quartile Q2 and IF=4.1) DOI: 10.1021/acsomega.4c01545.



Dr. George Fernandez I
Associate Professor
Department of CSE



Dr. Revathi V
Associate Professor
Department of CSE

- Dr. George Fernandez 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 2024 International Conference on Advances in Computing, Communication and Applied Informatics (ACCAI-2024) held at St. Joseph's College of Engineering, Chennai, Tamil Nadu during 9th and 10th May 2024.





Prof. G K Suryanarayana
Professor
Department of Aerospace Engineering

- Prof. G K Suryanarayana filed MOU with a Bangalore-based Defence Start-up Company.
- Nano-Missile: Integration with the Company's Drone
- Fixed Wing Nano-Air Vehicle
- Hybrid-Airplane Technology



Dr Nagaraja SR
Professor & Chairperson
Department of Aerospace Engineering



Prof. Sripad Kulkarni S
Assistant Professor
Department of Aerospace Engineering

- Dr. Nagaraja SR and Prof. Sripad Kulkarni S participated in a One-Day workshop on Eco-Drive: Accelerating Sustainable Electric Mobility organized by the Department of Electronics and Communication at DSU on 11/5/2024.

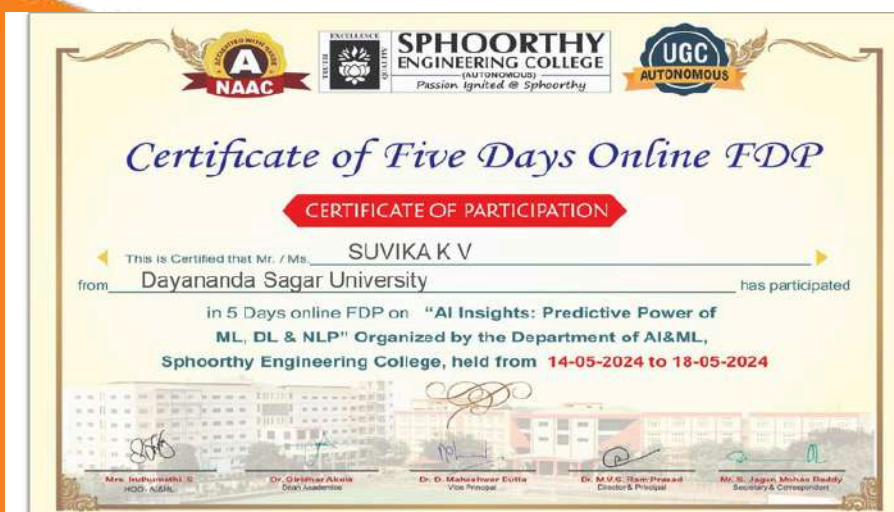
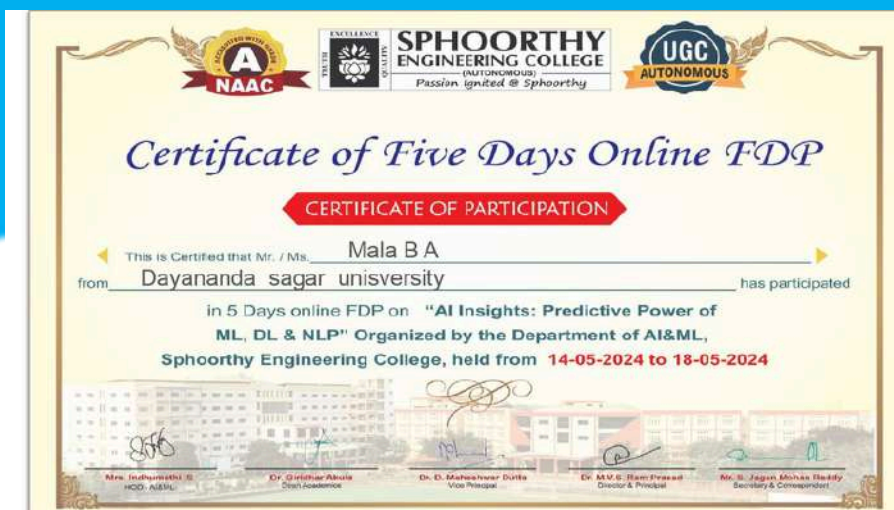


Prof. Mala B A
Assistant Professor
Department of CSE



Prof. Suvika K V
Assistant Professor
Department of CSE

- Prof Mala B A and Prof Suvika K V, Assistant Professors, have successfully participated in 5 days of online FDP on “AI insights: Predictive power of ML, DL and NLP”, from 14th to 18th May conducted by Sphoorthy Engineering College.



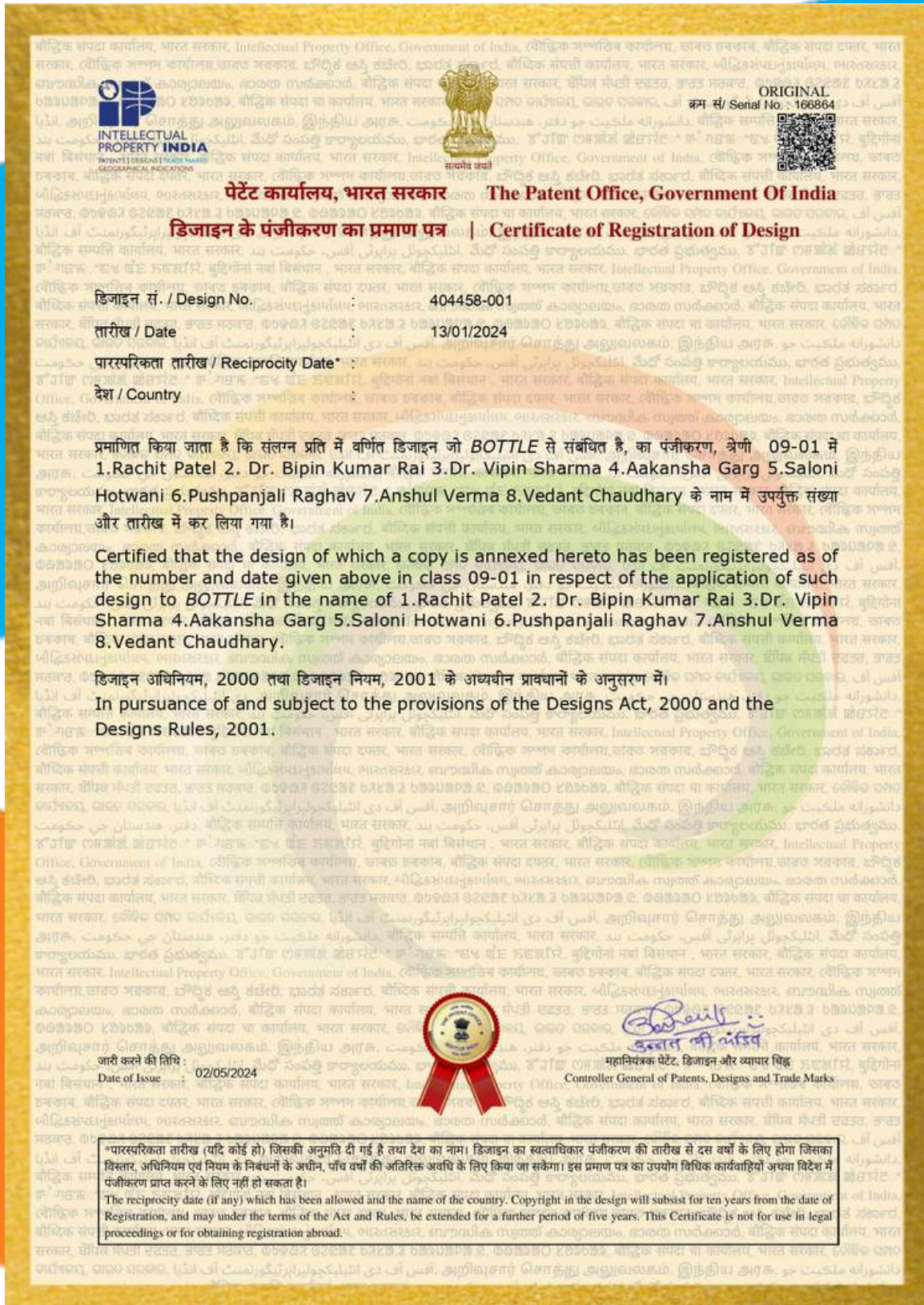


Dr. Bipin Kumar Rai
Professor
Department of CSE

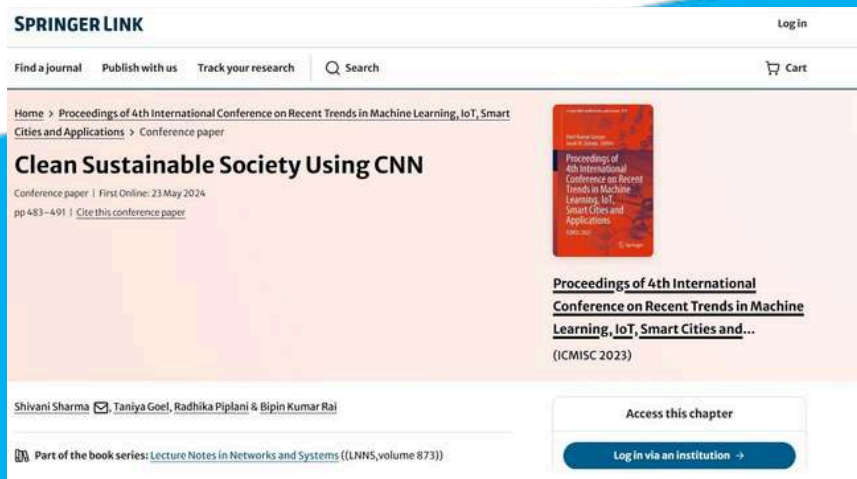
- Dr. Bipin Kumar Rai, Professor, Dept of CSE, contributed as a session chair in the 2nd International Conference on Disruptive Technologies (ICDT-2024) on 15th and 16th March 2024 organized by the Department of Computer Science and Engineering, GL Bajaj Institute of Technology and Management, Greater Noida (U.P), India.



- Dr. Bipin Kumar Rai, Professor, Dept of CSE filed an Indian patent for the title “Smart water Bottle” in Jan 2024 and approved a grant in May 2024.



- Dr. Bipin Kumar Rai, Professor, Dept of CSE, has published a research article in the 4th International Conference on Recent Trends in Machine Learning, IoT, Smart Cities and Applications. ICMISC-2023 with the title “Clean Sustainable Society Using CNN” in Springer conference, ISBN978-981-99-9441-0 in May 2024.



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

- Monish L completed the Virtusa Technology Orientation for Faculty Program on 16th May 2024 organised by VIRTUSA.



- Prof. Monish L, along with two 4th Semester students participated in a “Technical Talk” hosted by AT&T at the Vivanta Taj in Pattandur Agrahara, Bangalore, on May 14th, 2024. The session delved into the convergence of technology and leadership, with a particular focus on advancements in artificial intelligence (AI) and data science, exploring their implications for the future of work.



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

- VR Gurudas, SG Shaila, A Vadivel - “Morphological and Textural Data Fusion for Breast Cancer Classification Based on Inter and Intragroup Variances.” International Journal of Intelligent Engineering & Systems 17 (3) on 2024/5/1



Dr. Meenakshi Malhotra
Associate Professor
Department of CSE

- Dr. Meenakshi Malhotra, Associate Professor, Dept of CSE has successfully completed 12 weeks NPTEL Online Certification course on "NBA Accreditation and Teaching-Learning in Engineering (NATE)" as Elite and Topper with 88% in May 2024.



Elite

NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to
DR MEENAKSHI MALHOTRA
for successfully completing the course

**NBA Accreditation and Teaching-Learning in
Engineering (NATE)**

with a consolidated score of **88** %

Online Assignments	24.69/25	Proctored Exam	63.38/75
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Total number of candidates certified in this course: **1337**

Prof. G. L. Sivakumar Babu
Chairman, Center for Continuing Education
IISc Bangalore

Jan-Apr 2024
(12 week course)

Prof. L. Umanand
NPTEL Coordinator
IISc Bangalore



Indian Institute of Science Bangalore



Roll No: NPTEL24GE07S1152302841

To verify the certificate



No. of credits recommended: 3 or 4



Prof. Kavyashree I Pattan
Assistant Professor
Department of CSE

- Prof. Kavyashree I Pattan, Assistant Professor, Dept of CSE has successfully completed 12-week NPTEL Online Certification course on “Computer Network and Internet Protocol” as Elite with 77% in May 2024.



Elite

NPTEL Online Certification
(Funded by the MoE, Govt. of India)

This certificate is awarded to
KAVYASHREE I PATTAN
for successfully completing the course

Computer Networks and Internet Protocol

with a consolidated score of **77** %

Online Assignments	25/25	Proctored Exam	52.34/75
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Total number of candidates certified in this course: **9310**

Jan-Apr 2024
(12 week course)


Prof. Haimanti Banerji
Coordinator, NPTEL
IIT Kharagpur

 Indian Institute of Technology Kharagpur

 FREE ONLINE EDUCATION
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एनपीटीईल शैक्षणिक, प्रमुख संस्था

Roll No: NPTEL24CS19S452303492 To verify the certificate  No. of credits recommended: 3 or 4



Prof. Deepthika K
Assistant Professor
Department of CSE(CY)

- Prof. Deepthika K of the Department of CSE (Cyber Security) attended a five-day online FDP on “Effective Research Paper Writing Strategies and High Impact Journal Publication Techniques” from the 22nd to the 26th of April 2024 organized by Kongu Engineering College (Autonomous), Tamil Nadu.



- Prof. Deepthika K of the Department of CSE (Cyber Security) attended a five-day online FDP on “Impact of Machine Learning, Deep Learning and AI: An Industrial Perspective” from the 6th to the 10th of May 2024 organized by Kongu Engineering College (Autonomous), Tamil Nadu.



Dr. Prasantha Kumar HG
Assistant Professor
Department of Aerospace Engineering

- Dr. Prasantha Kumar HG from the Department of Aerospace Engineering got Rs. 12,0000/- funding from Dassault System La Foundation titled Design and Development of Digitally Twin Satellite.
- Dr. Prasantha Kumar HG from the Department of Aerospace Engineering represented Dayananda Sagar University and delivered a lecture on the topic “Made in Space” in the workshop on Additive Manufacturing for Future AM-2030 at VIT Vellore organized with British Council & Coventry University UK.



Dr. Avinash Kumar Saurav
Assistant Professor
Department of Aerospace Engineering

- Dr. Avinash Kumar Saurav, Assistant Professor, from the Department of Aerospace Engineering attended a conference on Safran Data Systems in association with the Aeronautical Society of India (AeSI), Bangalore Branch recently organized an event titled 'Testing in Motion' on the 23rd and 24th May 2024.



Ms. K. Sudha Deepthi
Manager - Bosch Rexroth lab
Department of Mechanical Engineering

- Ms. K. Sudha Deepthi, Manager at Bosch Rexroth Innovation Lab, presented her research paper at The ASME (The American Society of Mechanical Engineers) Aerospace Structures, Structural Dynamics and Materials ASME-SSDM 2024 conference in Seattle, Renton, WA, USA. She carried out her research work under the guidance of Dr. Rammohan, Professor -Dept. of Mechanical Engineering, this work was executed in Bosch Rexroth Innovation Lab using the latest Industry 4.0 and PLC. She received commendation and reflected her commitment to advancing the field. she could interact with many eminent speakers, authors and scientists from various parts of the world, the interaction has been a hugely enriching experience for her further research work.

- Ms.K. Sudha Deepthi, Manager - Bosch Rexroth Innovation Lab and a professional member of the ASME attended the annual meet TheASME (The American Society of Mechanical Engineers)– Karnataka Section. She was actively involved in the group discussion and shared her views about the different innovative methods to be adapted for motivating young minds to take up the core Mechanical Engineering course. She has also shared her insights on the multidisciplinary aspects of Mechanical Engineering and also on the importance of upskilling the skillset with AI in Mechanical Engineering.



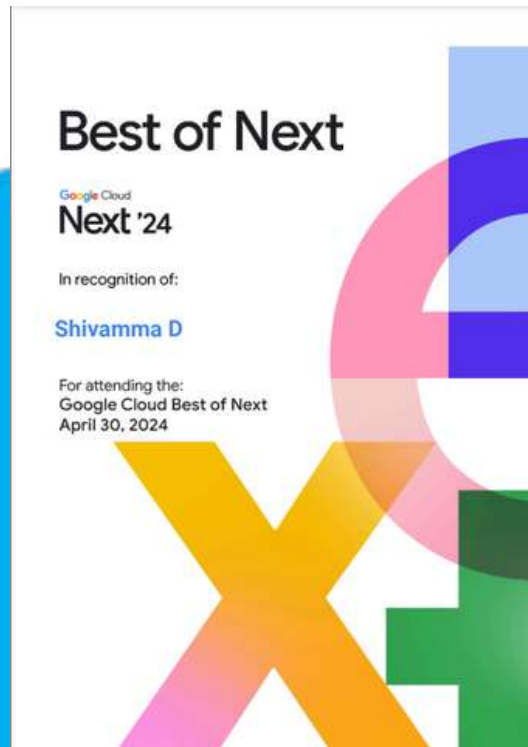


Shivamma D
Assistant Professor
Department of CSE(DS)

- Shivamma D completed the certification and earned the badges on Data Nuts & Bolts: Fundamentals of Data (27th May 2024), Learning Full Stack Development (28th May 2024) and Data Structures & Algorithms in Python: Implementing Sorting Algorithms (29th May 2024) organised by the Infosys Spring board and Skillsoft.



- Shivamma D Participated in a workshop on “Google Cloud Best of Next 2024” organized by Google on 30th April 2024



- Shivamma D completed the certification on “Python for Data Science” organised by SWAYAM NPTEL IITK in the month of April 2024





Prof. Naitik ST
Assistant Professor
Department of CSE

- Prof Naitik ST, Assistant professor, has published a research article in the Journal of Xi'an University of Architecture & Technology along with the students (Kushal Reddy HG, Nithin V, Manjunath M, Kumara) with the title “Survey on Enhancing the Detection of Fraud in Credit Card Transaction Using Machine Learning Techniques”, ISBN 1006-7930 and publisher is Science China Press indexed in Scopus during May 2024.

Journal of Xi'an University of Architecture & Technology

ISSN No : 1006-7930

SURVEY ON ENHANCING THE DETECTION OF FRAUD IN CREDIT CARD TRANSACTION USING MACHINE LEARNING TECHNIQUES

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ABSTRACT : Credit cards are an integral part of modern life, facilitating transactions for individuals, businesses, and global commerce. However, this convenience comes with the risk of fraudulent activities, which can have severe financial implications. Despite ongoing efforts by financial institutions to enhance fraud prevention measures, criminals continuously evolve their strategies, exploiting vulnerabilities in electronic transactions. To tackle this persistent challenge, there's a pressing need for sophisticated fraud detection solutions. This project aims to address this issue by providing insights into global credit card fraud statistics, with a specific focus on the Indian context. It explores various types of fraud, conducts a thorough evaluation of multiple machine learning algorithms, and compares their performance. Additionally, the project delves into advanced fraud detection tactics, highlighting their strengths and limitations, while suggesting potential remedies. One notable approach employed is Ensemble Stacking, a technique that amalgamates diverse base models like Decision Trees, Gaussian Naive Bayes, Random Forest, and KNN. By leveraging Ensemble Stacking, the project seeks to elevate the accuracy of fraud detection, thereby fortifying efforts to combat credit card fraud effectively.

Keywords :- Machine Learning , Random Forest , KNN , Decision Tree , Gaussian Naive Bayes

- Prof Naitik ST, Assistant professor, has published a research article in the Dizhen Dizhi Journal along with the students (Kushal Reddy HG, Nithin V, Manjunath M, Kumara) with the title “Enhancing the Detection of Fraud in Credit Card Transaction Using Ensemble Stacking”, ISBN 2534967 and publisher is SSA indexed in Scopus during May 2024.
- Prof Naitik ST, Assistant professor, has published a research article in the Journal of Xi'an University of Architecture & Technology with the title “Crowdsourcing of Criminal Records from Digital Identities of Individuals using AI”, ISBN 1006-7930 and the publisher is Science China Press indexed in Scopus during May 2024.



Dr. Monika Goyal
Assistant Professor
Department of CSE(AIML)

- Dr. Monika, Assistant Professor, Department of CSE (AIML), has published a Journal paper titled “Potential Exoplanet Detection Using Feature Selection, Multilayer Perceptron and Supervised Machine Learning” on 11th May 2024 at the 5th International Conference on Communication and Intelligent Systems (ICCIS 2023) at NIT Jaipur – Springer.
- Dr. Monika, Assistant Professor, Department of CSE (AIML), has published a Journal paper titled “Contrast Enhancement of Medical Images Using Otsu’s Double Threshold” on 11th May 2024 at the 5th International Conference on Communication and Intelligent Systems (ICCIS 2023) at NIT Jaipur – Springer.



Dr. Om Prakash Keshri
Assistant Professor
Department of Mathematics

- Dr. Om Prakash Keshri had attended an online FDP program organized by the National Centre for Mathematics, The Institute of Mathematical Sciences, Chennai titled “Teacher Enrichment Workshop On Linear Algebra Through Data Science” held from 20th May 2024 to 25th May 2024.

Certificate of Participation

National Centre for Mathematics

A joint centre of TIFR and IIT Bombay

The Institute of Mathematical Sciences, Chennai

This is to certify that *Dr. Om Prakash Keshri* from *Dayananda Sagar University, Harohalli* has participated in the online version of *Teacher Enrichment Workshop on Linear Algebra through Data Science* held from 20th May 2024 to 25th May 2024 at The Institute of Mathematical Sciences, Chennai.

Amritanshu Prasad

Prof. Amritanshu Prasad
The Institute of Mathematical Sciences,
CIT Campus, Taramani, Chennai 600113





Dr. Ankita Chandola
Assistant Professor
Department of Mathematics

- Dr. Ankita Chandola was the Faculty coordinator for the Five Days International Workshop on “Evolving Horizons: Synergizing Electric Vehicles, Battery Tech, Robotics and Semiconductor in the Modern Era” from 20th-24th May 2024 organized by the Department of Mechanical Engineering, SOE DSU.





SCHOOL OF ENGINEERING



STUDENT ACHIEVEMENTS

- Mr. Pruthvi (ENG21CT0031), Mr. Manoj Kumar R (ENG21CT0023) and Mr. Sandesh Shet (ENG22CT1002) participated and won the first prize in the Hackathon event on 19th May 2024 organized by Dayananda Sagar College of Engineering, Bengaluru.

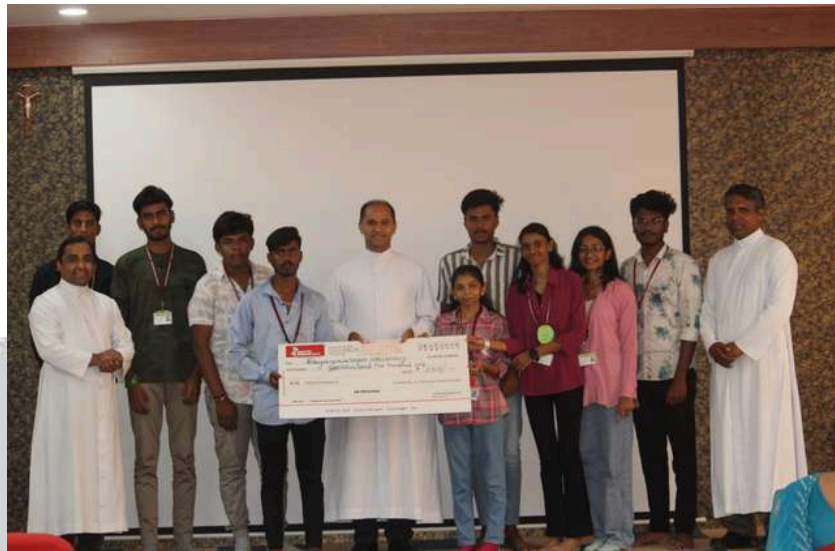


- Ms. Dhivya Balakumar (ENG22CT0004) has successfully participated in the Common Internship Test program with Internship Studio on 18th May 2024.



- Ms. Akshitha T. O. (ENG22CT0040) published a patent on “Ceiling Fan with an Embedded Speaker” Application Number: 412554-001.
- Mr. Rishav Aditya (ENG22CT0032) published a patent on “A wireless charger-power bank” Application Number: 412557-001.
- Ms. Manasvini V (ENG22CT0013) published a patent on “Customized Flower Shaped Study Lamp” Application Number: 412558-001.
- Mr. Devalapalle Jayanth (ENG22CT0027) published a patent on “Wireless Headset with No Headband” Application Number: 412552-001.
- Ms. Jalaja R. (ENG22CT0007) published a patent on “Anadigic Timepiece” Application Number: 412556-001.
- Ms. Srushti S (ENG22CT0019) published a patent on “Detachable Footwear Straps” Application Number: 412556-001.
- BCA 2nd semester students participated in various events in the Technical Event “TECHKRITI 2024” at St. Francis De Sales College, Electronic City and won Overall Championship of the event. Mr. Sai Shankar D (ENG23CA0067) and Mr. Tushar Ghosh (ENG23CA0084) secured second place in debugging, Mr. Sanjeev Reddy (ENG23CA0071) and Mr. Sanjeev Swamy S (ENG23CA0072) secured first place in debugging and second place in debate. Ms. Richa Choudhary (ENG23CA0062) won second place in poster making. Mr. Sai Shankar D(ENG23CA0067), Mr. Tushar Ranjan (ENG23CA0084), Ms. Ujwala Chikkanna (ENG23CA0090) and Mr. Nithin N (ENG23CA52) Secured 1st place in Treasure Hunt and all together won overall championship to DSU with cash prize.





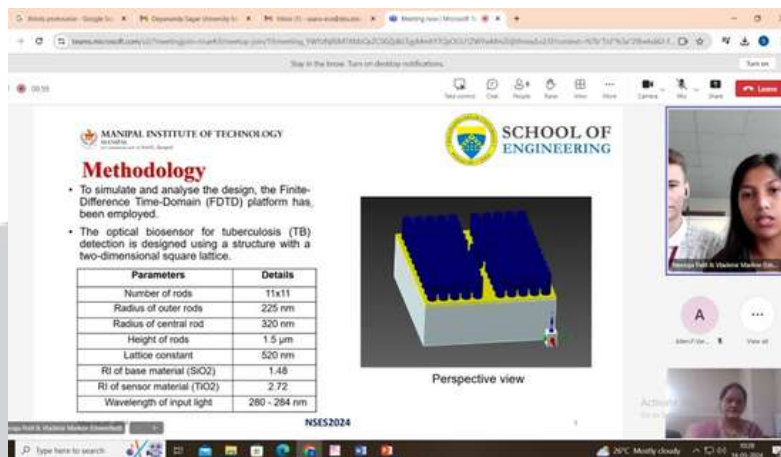
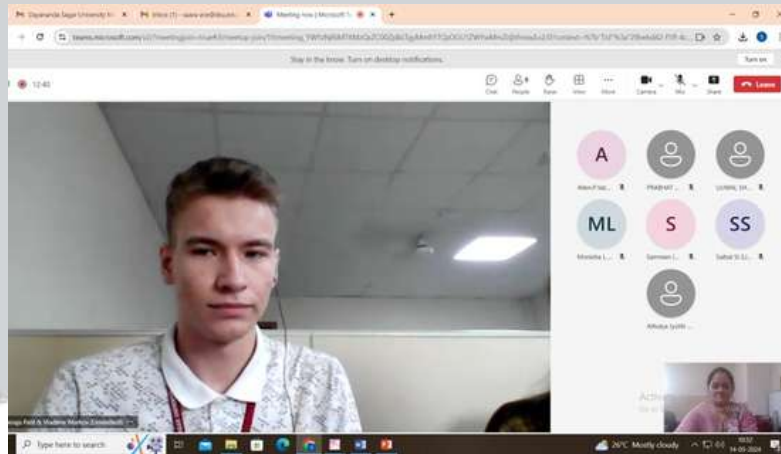
- Mr. Vatsal Amrania (ENG23AS023), of Aerospace Engineering has been selected as Autodesk student Catalyst program from the academic year 2024-25 as Fusion Catalyst @ DSU.
- Students from the final year of the Department of Aerospace Engineering namely Nischal Kumar KS (ENG21AS1008), Mohammed Abbas S (ENG21AS1002) and Mohammed Sahil (ENG21AS1006) with a project titled “Targeted Type Thrust Reversal system” have been selected for Karnataka State Council for Science & Technology Student project Program (2023-24) with a fund of Rs 7000/- guided by Prof Sripad Kulkarni S.
- Mr. Jason Joseph Dsilva (ENG20AS0006) and his team consisting of Subha Prakash Patnaik, Harsha Tiwari and the mentor Prof. Pradeep Kumar had authored a paper titled “Precision object tracking in a drone system” which they had presented at East point college of engineering and technology for the conference “NEXT GENERATION INTELLIGENCE IN ELECTRONICS AND COMMUNICATION ENGINEERING [NGIEC-2024]” conducted by the Electronics and Communication department of the college after getting accepted and have won the best paper in our track for the same. Best Paper Award at NGIEC organized by East Point College of Engineering.



- The paper titled “Conceptualisation of an Aerostatic Platform for Mid-Air Docking and Energy Transference Systems for Unmanned Aerial Vehicles: A Paradigm Shift in UAV Operational Endurance” authored by Rishi Sood, Nischay Bk, Jason Joseph and Kartik S Tandel has been selected for presentation at 2nd International Conference on Design and Engineering of Lighter-Than-Air systems (DELTA - 2024) at IIT Bombay scheduled from 26th to 28th June 20. This research is based on work that was done during the Dobass (Docking & Battery Swapping System for UAV) competition that was conducted by the organization during the Commemoration of 75 years of The Aeronautical Society of India at Delhi which was won by the same student team. Design and Engineering of Lighter-Than-Air systems (DELTA - 2024) at IIT Bombay.
- Ms. Rachana PM (ENG20AS0023) final year student from the Department of Aerospace Engineering got an internship at Air Bus.
- The PhD viva-voce examination of Mr. Prathap PB (ENG18PPEC02) was held on May 13th, 2024 for his thesis titled "Optimized Cross-Domain Tilted Fiber Bragg Grating Driven Biosensing Solution for Clinical Decision System" under the guidance of Dr. Saara K, Professor, Dept. of ECE.



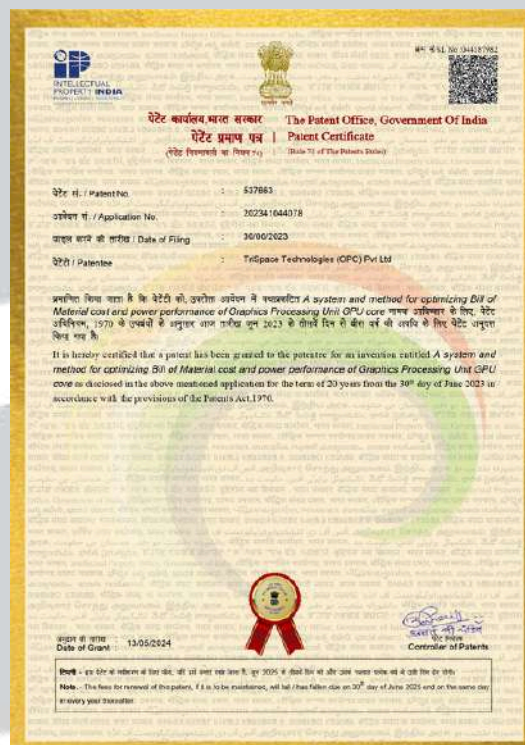
- Under the guidance of Dr. Saara K, Ms. Neeraja Patil, along with international students Mr. Markov Vladimir and Mr. Skobelev Maksim and co-author Prathap P B, presented a research paper at the National Student Energy Summit 2024, held on May 14, 2024 at the Manipal Institute of Technology. Their exceptional work was recognized with the Best Hardware/Simulation Award, accompanied by a cash prize of INR 1000.



- Under the guidance of Dr. Saara K, Mr. Punith Vinay Rao, Ashwin J, Banu Prasad B and Muheez H J presented a paper titled “An Affordable Airborne Weather Observation Platform” at the National Student Engineering Symposium (NSES) held at MIT, Manipal. Their innovative work secured the second position, earning them a cash prize of INR 3000.



- Mr. Kamarasu Venkata Sriya (ENG21CS1009) has filed an Indian patent for the internship he carried out with the title “A system and method for optimizing Bill of Material cost and power performance of Graphics Processing Unit GPU core” through TriSpace Technologies(OPC) Pvt Ltd under the guidance of Dr M K Banga in May 2024.



- Mr. Kamarsu Venkata Sriya (ENG21CS1009) has won Second Prize in the DSU Project Expo 2024, conducted by the CSE department on 17th May 2024.



- Mr. Shreyas S (ENG21CS0389) won first place at the blockchain-based web3wave event conducted by the Career Club at DSU on 3rd May 2024.



- Mr. Amith R (ENG21CS0033), Ms. D Akshitha (ENG21CS0102), Mr. Amith Kumar P (ENG21CS0281) and Ms. Akila A (ENG21CS0025) have participated in the e-YUVA Project Funding Proposal Presentation Competition organized by BIRAC. The event took place at the University of Agricultural Sciences, Dharwad, on 8th May 2024. The presentation focused on an innovative app called “Lung Sight”, which utilizes an advanced approach to detect and classify lung nodules using CT images for the early detection of cancer. The app aims to contribute significantly to improving survival rates by enabling early identification of lung cancer under the guidance of Dr Pramod Kumar Naik.



- Mr. Jashwanth P V (ENG23CSE005) and Mr Giridhar S T (ENG23CSE005) have participated as a finalist in the grand finale of EG Hackathon 2024 from 14th May to 15th May 2024 at Mangalore.



- Ms. Sofia Rebecca (ENG22CS0590) and her team participated and won the consolation prize in the Two-day PAN India Contest and Drone Competition. This team created a surveillance drone that recognizes faces and can track objects. The event took place in the open auditorium from 9 am to 4 pm on the 3rd of May 2024.



- Mr. Sujeet Mahadev Alagundi (ENG22CS0191) and Mr Sharanu Mitta (ENG22CS0160) participated DSU Code Red Hackathon Contest was held on 22nd to 23rd of May by the DSU ACM Student Chapter in the DSU Main Campus Harohalli.



- Ms. Sristi A H (ENG22CS0186) participated in the DSU Matrix International Hackathon Workshop on Exploring ARM technologies and opportunities held on 22nd May 2024. The HR conclave 24 was held on May 24, 2024.
- Mr. Adarsh Priyadarshi (ENG22CS0517) has Participated in the Dayananda Sagar University Model United Nations Lok Sabha (DSUMUN) held at DSU Main Campus on 24-05-2024 and 25-05-2024. Secured the 2nd position while representing Rajnath Singh, Hon'ble Defence Minister of India in the Lok Sabha and also awarded a cash prize for the same.



- Ms. Savita Chinnur (ENG22CS0156) was awarded the IEEE Women Engineering scholarship of 50,000 funded by Quest Global on 16th May 2024.



- Mr. Mohammed Amrin Bushra Taj (ENG21AM3022) and L Anagha (ENG21AM3019), of the AIML department, have won Second Prize in Project Expo 2K24 (Dept. of CSE, SoE, DSU).



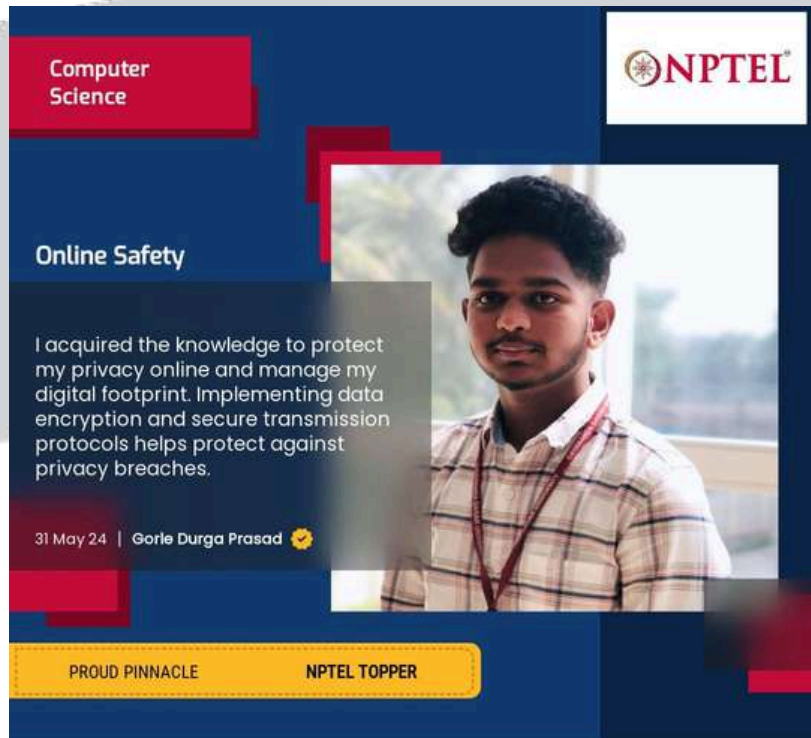
- Mr. KRISHNA KAUSHIK (ENG21AM0020) and Mr. M PATRICK ROZARIO (ENG21AM0066), of the AIML department have Won First Prize in the IOT project-based idea competition, (Dept. of CSE, SoE, DSU).
- Darshan Anand (ENG21AM0028), of the AIML department, has Won the First Prize in Wave3Web Blockchain hackathon, (Dept. of CSE, SoE, DSU).
- Mr. Ujjwal Jaiswal and Mr. Vishwas Kumar Keshari, of the AIML Department have won the Second Runner up prize in Rapid Racer conducted by the AIML Dept. SoE, DSU.



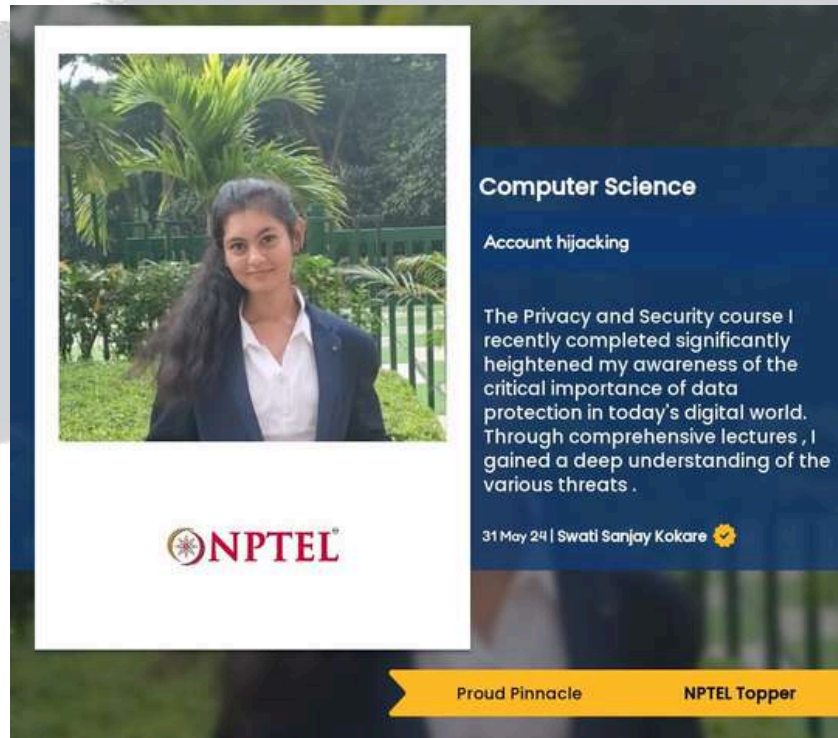
- Mr. Ratan Ravichandran (ENG21AM0093), Mr. Sayli Pankaj Bande (ENG21AM0112) and Mr. Sri Bharath Sharma P (ENG22AM3005) achieved first place at HackNXS, a 24-hour hackathon hosted by MAHE Bengaluru- Yelahanka. The hackathon was for 24-hour event based on the theme of sustainable development for virtual classrooms and involved building a Generative AI-based project. After three continuous evaluations and having their projects reviewed by judges from reputed companies such as Google and IBM, the team "Init to Winit" secured first place and was awarded a cash prize of INR 50,000.



- Mr. Gorle Durga Prasad (ENG21CY0015) of department of CSE(Cyber Security) has successfully completed the course "Privacy and Security in Online Social Media" with 84% and stood one of the toppers in the course from NPTEL through Swayam platform.



- Ms. Swati Sanjay Kokare (ENG21CY0045) of department of CSE(Cyber Security) has successfully completed the course "Privacy and Security in Online Social Media" with 83% and stood one of the toppers in the course from NPTEL through Swayam platform.



Computer Science

Account hijacking

The Privacy and Security course I recently completed significantly heightened my awareness of the critical importance of data protection in today's digital world. Through comprehensive lectures, I gained a deep understanding of the various threats.

31 May 24 | Swati Sanjay Kokare 🏆

Proud Pinnacle NPTEL Topper



Elite

NPTEL Online Certification
(Funded by the MoE, Govt. of India)

This certificate is awarded to
SWATI SANJAY KOKARE
for successfully completing the course

Privacy and Security in Online Social Media

with a consolidated score of **83** %

Online Assignments	23.04/25	Proctored Exam	60.2/75
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Total number of candidates certified in this course: 11095

Prof. Kishore Kothapalli
Professor and Dean (Academics)
IIT Hyderabad

Jan-Apr 2024
(12 week course)

Prof. Andrew Thangaraj
NPTEL Coordinator
IIT Madras

International Institute of Information Technology, Hyderabad

swayam

Roll No. NPTEL24CS04S1252300833 To verify the certificate  No. of credits recommended: 3 or 4

- Ms. Srushti S (ENG22CT0019) has successfully completed the course “Introduction to DevOps” on April 2024.



- Ms. Srushti S (ENG22CT0019) has successfully completed the course “AWS Project” on May 2024.



- Ms. Srushti S (ENG22CT0019) has successfully completed the Virtual Internship Program at BHARAT INTERN in “Web Development” from 10th March to 10th May 2024.



- Ms. Srushti S (ENG22CT0019) has participated in “DSU Code Red” 24 hours hackathon organized by the DSU ACM Student chapter on 22-23 May 2024.



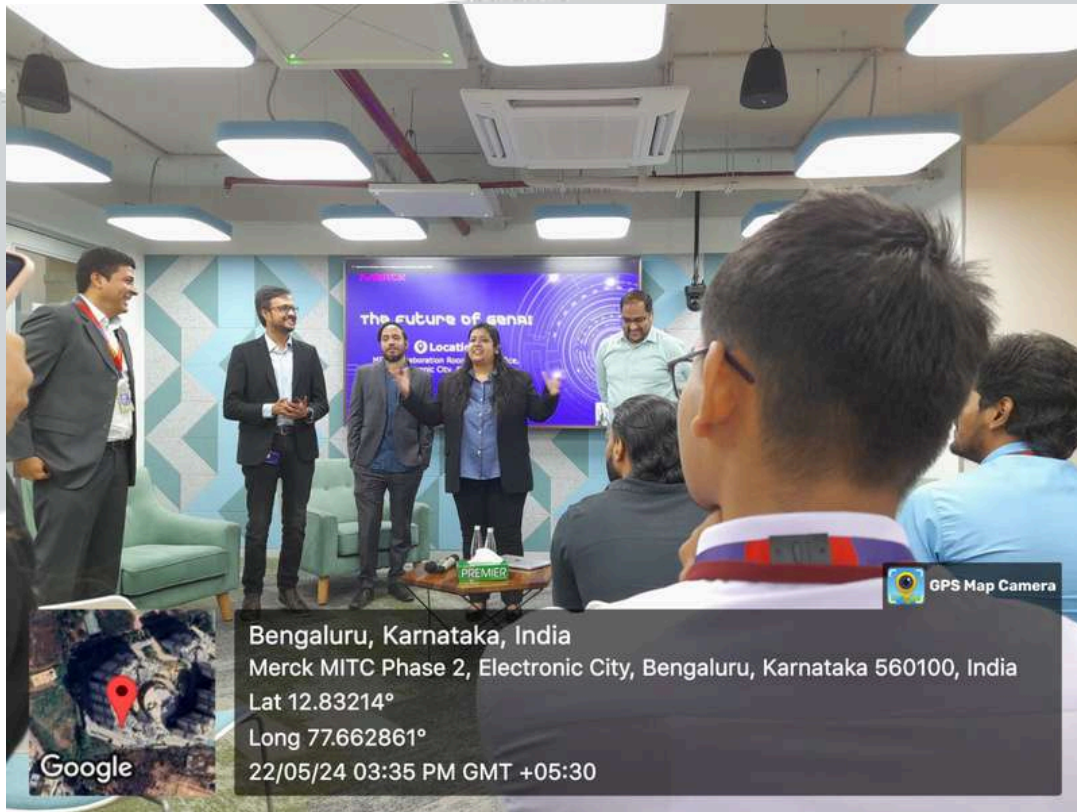
- Mr. Nitin Prajwal R (ENG22DS0039, 4th Sem) secured 2nd place at the DSU CODE RED Hackathon organized by ACM DSU on 22/05/2024. He won a cash prize of ₹2000.



- Mr. Abhishek A (ENG21DS0002) and Mr. Abhishek N (ENG21DS0003), participated in a “Technical Talk“ hosted by AT&T at the Vivanta Taj in Pattandur Agrahara, Bangalore, on May 14th, 2024.



- Ms. Akshaya B (ENG21DS0006) and Ms. Chaithra K(ENG21DS0014) were selected to attend the event “MITC X FireSide Chat with MITC: The Future of GenAI” on 22nd May at Merck office, Bangalore.



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