



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



INTERNATIONAL ACTIVITIES

Intercontinental Innovo Quest – 24

The CSE (AI and ML) department organized a 30Hrs Intercontinental Hackathon – Innovo Quest 24. Inaugurating the pioneering event "Innoquest 2024," a 30-hour Hackathon which was a collaboration between Dayananda Sagar University and Letourneau university Longview Texas USA dedicated to the exploration of "computing for social good,". Participants immersed themselves in a spirited competition. Notable figures such as Jhonson Jose, Director at Alphabet Inc., graced the occasion as a Guest of Honor, while the distinguished Chief Guest, Dr. Brent Bass, HOD of CSE at Letourneau University, conveyed his wishes virtually, adding to the significance of the event.

The formal inauguration was graced by esteemed dignitaries including Dean Uday Kumar Reddy from SOE, Dean of Academics Dr. Ramesh R. Galigere, Dean of Research and Development Dr. Kousalya Govardhanan, and Vice President of International Affairs Ms. Supriya Mathew. With 43 teams and 125 enthusiastic problem solvers, participants began crafting their presentations aimed at addressing societal challenges. These presentations were evaluated by a respected jury panel, comprising experts from both industry and academia, Dr. Hariharan, a retired ISRO Scientist, Dr. Bipin Kumar, Dr. Gopalsharma R. Joshi, Dr. Arun Balodi, Dr. Kousalya Govardhanan, and Dr. Pramod Naik, all from the School of Engineering at DSU.

Date: 1st March 2024 to 03rd March 2024

Convener:

Dr. UDAYA KUMAR REDDY K R, Dean SoE

Dr. AMIT BHATT, Vice Chancellor, DSU

Dr. PUTTAMADAPPA C, Registrar, DSU

Dr. RAMESH R GALIGEKERE, Dean (Acad), Science & technology

Ms. SUPRIYA MATHEW, Vice-president, International affairs, DSU

Dr. JAYAVRINDA VRINDAVANAM, Chairperson and Professor, Department of CSE (AI & ML)

Faculty Coordinator:

DR. VINUTHA N, Associate Professor, Department of CSE (AI & ML)

PROF. PRADEEP KUMAR K, Assistant Professor, Department of CSE (AI & ML)

Student Coordinators:

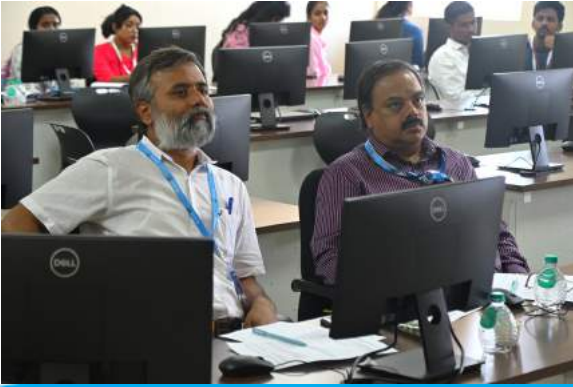
Mr ANUJ DWIVEDI, Student, Department of CSE (AI & ML)

Mr HARSH MANALEL, Student, Department of CSE (AI & ML)

Ms NEHA AMIN, Student, Department of CSE (AI & ML)

Mr ARJUN PULIVARTHI, Student, Department of CSE (AI & ML)





20-Hour Value Added Course on IIoT for 4th Semester

The Department of Electronics and Communication Engineering, Bengaluru is pleased to welcome our "Scholar in Residence at SOE" Dr. Stefano Rinaldi is an Associate Professor at the University of Brescia, Italy specializing in Electric and Electronic Measurement.

His research focuses on IoT systems aimed at bolstering industrial automation, as well as the development of Smart Grids and Smart Cities. He is particularly interested in integrating renewable energy sources, electrical storage systems, and e-vehicle charging stations into distribution grids. He has delivered a value-added program on "Mastering Industrial IoT on a Comprehensive Exploration".

Dr. Stefano Rinaldi engaged in discussions with Full-time PhD research scholars, on March 4, 2024. This interaction has opened up a broad range of opportunities for us to explore research projects in the fields of renewable energy, IIoT, and sensor technology.



About me

- Associate Professor at the Department of Information Engineering - University of Brescia
- World's 2% Top Scientists (Stanford - Elsevier)
- IEEE, IEEE-SA Member (IEEE1588, IEEEEP3335, IES TCFA-SC FA4, P2805.4), Instrumentation and Measurement and Industrial Electronic societies
- PI of 5 scientific research projects and of several industrial research contracts
- International Collaborations: USA, Sweden, Switzerland (CERN), Germany, Australia, Lithuania, Hungary, Spain, Portugal, Brazil, Chile, India, Senegal, ...
- Authors of more than 210 international research papers
 - H-index 29, 2800 citations (source: www.scopus.com)
 - H-index 34, 3800 citations (source: www.scholar.google.com)
- Main research activities:
 - Industrial real-time communication
 - Industrial Internet of Things
 - Embedded system and Linux Real-Time
 - Smart Grid, e-vehicle and renewable energies
 - Smart Cities and building management systems

Kanakapura, Karnataka, India
 MC6X+6RP, Kanakapura Rd, Kanakapura, Karnat
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 Long 77.450718°
 04/03/24 12:43 PM GMT +05:30

About me

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 - Industrial Internet of Things
 - Embedded system and Linux Real-Time
 - Smart Grid, e-vehicle and renewable energies
 - Smart Cities and building management systems

Mastering Industrial IoT: A Comprehensive Exploration
 Introduction 00

Prof. Stefano Nicolini
 Department of Information Engineering
 University of Brescia, Brescia, Italy

Kanakapura, Karnataka, India
 MC6X+6RP, Kanakapura Rd, Kanakapura, Karnataka 56

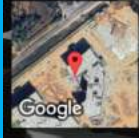
Industrial Revolutions

1st	2nd	3rd	4th
Mechanization, water power, textile industry	Mass production, assembly lines, electricity	Computer and automation	Cyber Physical Systems

- Introduction of (steam) machines in chemical and iron and steel processes, 1830
- Technological revolution, use of electricity, machine tool, production line, 1900s
- Digital Revolution, Digital Electronics, Computers, ICT, 1980
- Total computerization of production, 2012 Germany
- Industry 4.0 Smart factory



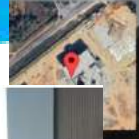
GPS Map Camera



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GPS Map Camera



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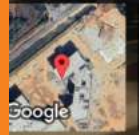
GPS Map Camera



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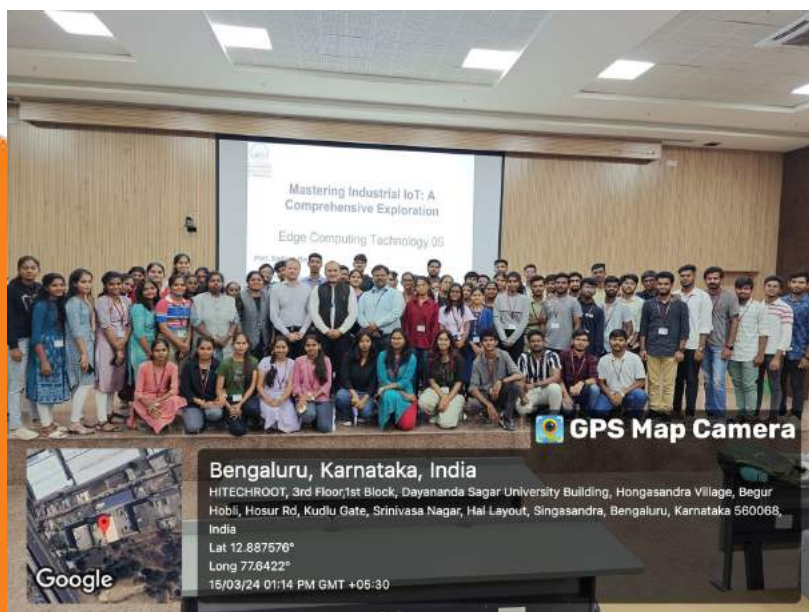


GPS Map Camera



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The course ended on 15th March 2024 with the feedback and question-answersession. All the students and faculty coordinators have expressed their experience and discussed for further collaboration for the projects in the IIoT Domain.



Seminar on “Navigating the future, Mastering Industrial IOT”

The Department of Electronics and Communication has completed the seminar on “Navigating the future, Mastering Industrial IOT”. The seminar was conducted on 7th March 2024 at DSU, Kudlu Gate, Bangalore. The seminar started with a welcome note to all dignitaries by Dr. Saara, followed by the introduction of the guest speaker Dr. Stefano Rinaldi by Prof. Sivasankari. The chairman of the ECE department addressed the gathering and motivated the students to actively participate in the seminar. Then session was handed over to the Dr. Stefano Rinaldi. He explained the Internet of Things and CPS. He elaborated on the vision and challenges of IIOT. The guest speaker explained how the IOT is connected and how it communicates with each device. Students understood about automation in industries. The session concluded with the question-and-answer session, in which students actively participated and cleared their doubts.

Chief Patron
Dr. S. Hemachandra Bagan,
Chancellor

Dr. Prameshwar Bagan,
Pro-Chancellor

Patron
Shri. Subramanyam,
Secretary, DSU

Dr. Anil Bhat,
Vice-Chancellor

Prof. S. Jaganathan,
Vice-Chancellor

Dr. Rajeshwari,
Registrar

Shri. Supriya Mathew,
Vice President - International Affairs

Co-sponsors
Dr. Udaya Kumar Reddy K.R.
Dean, ECE

Dr. Anil Bhat,
Chairman, ECE

Organiser
Mr. Saara S.
Professor, ECE

Co-ordinator
Prof. Sivasankari S.S.
Assistant Professor, ECE

DAYANANDA SAGAR UNIVERSITY
SCHOOL OF ENGINEERING
ELECTRONICS & COMMUNICATION ENGINEERING
KUDLU GATE, HOUSUR MAIN ROAD, BENGALURU - 560014

AGENDA:
Aim to provide participants with a comprehensive understanding of Industrial Automation and Industrial Internet of Things (IIoT). Key objectives include: identifying opportunities in industrial automation, exploring IoT foundations, delving into architectures, comparing sensors and devices, discussing data analysis, enhancing IIoT security, understanding connectivity, exploring standards and interoperability, relating Industry 4.0 and IIoT, and applying knowledge through case studies. Participants will gain practical insights and skills to integrate and contribute effectively to the evolving landscape of industrial automation.

Resource Person:

Dr. Stefano Rinaldi
University of Brescia, Italy

SEMINAR ON
NAVIGATING THE FUTURE: MASTERING INDUSTRIAL IOT
07th March 2024
Time: 10:00 AM - 01:30 PM
Gully Hall I, A Block

[Click here for registration](#)

For queries contact:
saras@dsu.edu.in; #9320466441
sivasankari_sce@dsu.edu.in;
7204540059



“THREE DAYS WORKSHOP ON MACHINE VISION INSTRUMENTATION”

The Dept. of AI&ML invited Dr. Pavel, associate professor, Institute of Automation and Computer Science at Brno University of Technology in the Czech Republic to conduct a three days workshop on Machine Vision Instrumentation from 25th march to 27th march 2024

The workshop provided comprehensive insights into machine vision systems and lighting geometry for industrial applications. Participants learned about the intricate interaction of radiation with matter, crucial for understanding image formation and color perception, aspects of industrial imaging, covering diffused incident illumination, radiation sources, and camera lens fundamentals. The workshop also provided insights into UV fluorescent imaging and camera lens functionalities.

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DAYANANDA SAGAR UNIVERSITY
SCHOOL OF ENGINEERING
KUDLU GATE, HOSUR MAIN ROAD, BENGALURU - 560068
Department of Computer Science Engineering
(Artificial Intelligence & Machine Learning)
&
DEPARTMENT OF INTERNATIONAL AFFAIRS

Report on
THREE DAYS WORKSHOP ON MACHINE VISION INSTRUMENTATION

Speaker :

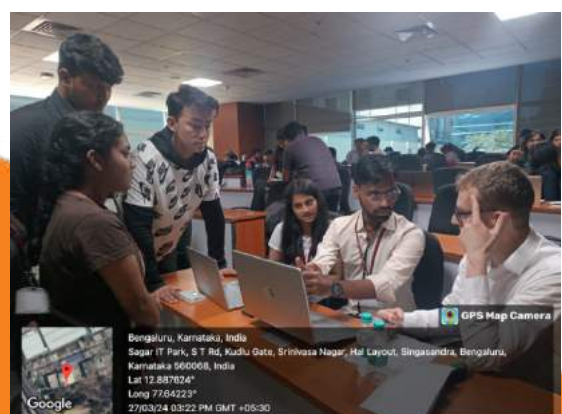
DR. PAVEL ŠKRABÁNEK
ASSOCIATE PROFESSOR,
MENDEL UNIVERSITY IN BRNO,
CZECHIA REPUBLIC

TARGET AUDIENCE : 3RD YEAR STUDENTS
VENUE : GALLERY HALL 1, CAMPUS-3
25th March to 27th March 2024.

Convenors,
Dr. Amit Bhatt, Incharge Vice Chancellor, DSU
Dr. Puttamadappa C. Registrar, DSU
Dr. Udaya Kumar Reddy K R, Dean, SOE, DSU
Dr. Ramesh R Galigeke, Dean (Acad), SOE, DSU
Ms. Supriya Mathew, Vice President of International Affairs, DSU
Dr. Jayavrinda vrindavanam, Chairperson, AIML, SOE, DSU

Student Coordinators,
Mr. Vinay R, 6th Sem, AIML, SOE, DSU
Ms. Shrushti Gondar, 6th Sem, AIML, SOE, DSU

Staff Coordinators,
Dr. Vinutha N, AIML, SOE, DSU
Dr. Monika G, AIML, SOE, DSU
Prof. Uday Bhaskar, AIML, SOE, DSU



“WORKSHOP ON FUZZY SETS, FUZZY LOGIC AND THEIR APPLICATIONS”

The Dept. of AI&ML invited Dr. Pavel, associate professor, Institute of Automation and Computer Science at Brno University of Technology in the Czech Republic to conduct a three day workshop on Fuzzy Logic And Their Applications from 18th march to 20th march 2024

To maintain student engagement and interactivity throughout the session, a quiz was organized across all three days. Professor Pradeep Kumar K led the quiz, which focused on the topic taught by Dr. Pavel. The quiz consisted of five questions aimed at reinforcing key concepts covered during Dr. Pavel's lecture.. This interactive approach not only helped students to actively participate in the learning process but also provided an opportunity for immediate assessment and reinforcement of their understanding. By incorporating quizzes into the session, the organizers ensured that students remained attentive and engaged, enhancing the overall learning experience.



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Dayananda Sagar University
Devarakoppalshahalli, Harohalli Kemlakapura Road,
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**DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING
(ARTIFICIAL INTELLIGENCE & MACHINE LEARNING)
&
DEPARTMENT OF INTERNATIONAL AFFAIRS**

**THREE DAYS WORKSHOP
ON
FUZZY SETS, FUZZY LOGIC AND
THEIR APPLICATIONS**

**TARGET AUDIENCE: 2ND YEAR STUDENTS
VENUE: HAROHALLI CAMPUS - LECTURE HALL**

Fuzzy logic which is based on the observation that people make decisions based on imprecise and non-numerical information. It has been used to solve complex problems where the parameters may be unclear or imprecise.

18th March to 20th March 2024
09:00 AM - 04:15 PM

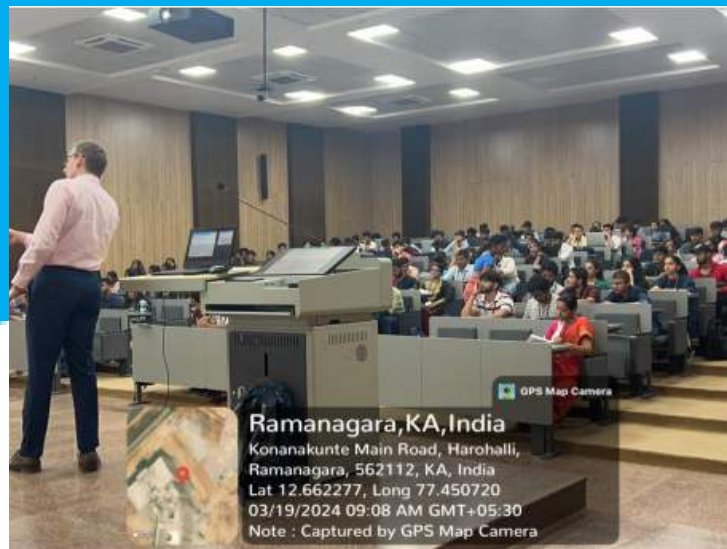
Resource Person
Dr. PAVEL ŠKRABÁNEK
Associate professor
Mendel University in Brno,
Czechia Republic

Convenors
Dr. Amit Bhatt, Incharge Vice Chancellor, DSU
Dr. Puttamadappa C, Registrar, DSU
Dr. Udaya Kumar Reddy K R, Dean, SOE, DSU
Dr. Ramesh R Galigekeere, Dean (Acad), SOE, DSU
Ms. Supriya Mathew, Vice President of International Affairs, DSU
Dr. Jayavrinida Vrindavanam, Chairperson, AIML, SOE, DSU

Student Coordinators:
Ms. GaanaShree .S, 4th Sem AIML, SOE, DSU
Mr. Yogesh N, 4th Sem AIML, SOE, DSU

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Staff Coordinators
Dr. Vegi Fernando A, AIML, SOE, DSU
Dr. Mude Nagarjuna Naik, AIML, SOE, DSU
Prof. Pradeep Kumar K, AIML, SOE, DSU



“FACULTY INTERACTION ON MACHINE VISION INSTRUMENTATION AND DEEP CONVOLUTIONAL NETWORKS”

The AI & ML department organized a Faculty Interaction Session with Dr. Pavel Škrabánek on March 22, 2024, from 2:00 PM to 4:30 PM. The event took place at G0036 ‘B’ Block. The event started by welcoming the resource person and faculties from the School of Engineering by Dr. Vinutha N and Dr. Monika Goyal introduced the guest speaker, Dr. Pavel Škrabánek. Dr. Pavel commenced the session by providing insights into Fuzzy Regression and Machine Vision Instrumentation. He elaborated on ongoing funded projects, including Monitoring the condition of plants in the greenhouse and Development of smart light for machine vision.



The poster is a vertical rectangular document with a dark blue background and white text. It features the School of Engineering logo at the top left and the university logo at the top right. The text is organized into several sections: university name and address, department names, event title, campus-specific consultation details, target audience, registration information, resource person details with a portrait, convenors, contact person, and staff coordinators.

SCHOOL OF ENGINEERING
Dayananda Sagar University
Devarakaggalahalli, Harohalli Kanakapura Road,
Dt, Ramnagara, Karnataka 562112

**DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING
(ARTIFICIAL INTELLIGENCE & MACHINE LEARNING)
&
DEPARTMENT OF INTERNATIONAL AFFAIRS**

FACULTY INTERACTION

Campus 4: A510 (limited Seats)
Expert consultation for the students and researchers of the DSU in machine vision instrumentation and in deep Convolutional Networks.
18th March 2024 9.00AM to 12.00PM
21st March 2024, 9.00AM to 10.15AM

Campus 3: B Block
Expert consultation for the students and researchers of the DSU in machine vision instrumentation and deep Convolutional Networks.
22nd March 2024, 02.00PM to 04.30PM

TARGET AUDIENCE:
SOE, FACULTY FATHERNITY
RESEARCH SCHOLARS

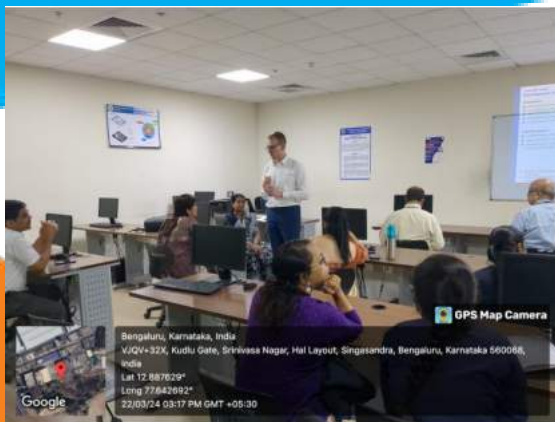
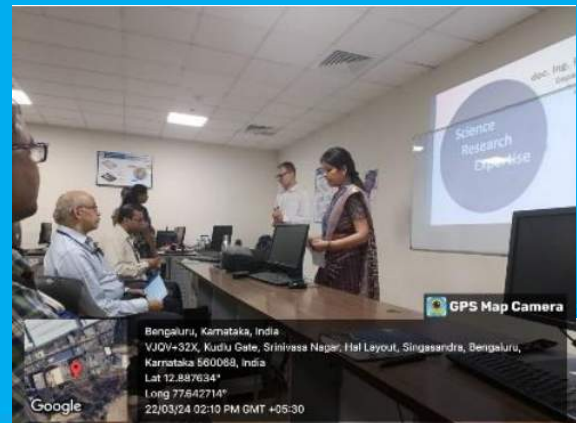
REGISTRATION
<https://forms.gle/tvEZuCNPU4t9HydNA>

RESOURCE PERSON
DR. PAVEL ŠKRABÁNEK
Associate professor
Mendel University in Brno,
Czechia Republic

Convenors
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Dr. Puttamadappa C, Register, DSU
Dr. Udaya Kumar Reddy K R, Dean, SOE, DSU
Dr. Ramesh R. Galgakeri, Dean (Acad), SOE, DSU
Ms. Supriya Mathew, Vice President of International Affairs, DSU
Dr. Jayavinda vrindevanam, Chairperson, AIML, SOE, DSU

CONTACT PERSON
DR. VEGI FERNANDO - C4
DR. VINUTHA N - C3

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Dr. Vegi Fernando A, AIML, SOE, DSU
Dr. Monika C. AIML, SOE, DSU
Dr. Mude Nagarjuna Naik, AIML, SOE, DSU
Prof. Pradeep Kumar K, SOE, DSU





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WORKSHOPS / SKILL DEVELOPMENT PROGRAMS

Workshop on “New Product Design and Development”

The Department of Computer Science & Technology conducted Workshop on new product design and development on 23rd March 2024. The resource person for the workshop was Mr. Santosh Bhoosthali, a multi skilled person who has completed his M.Tech in Indian Institute of Technology (IIT) Bombay. Students learnt about the stages involved in process of new product development. There were some activities conducted for the students to identify their potential and boost their self-confidence. The main focus was to teach the students how to build products and also on beyond thinking, critical high level thinking as per industry requirements.



DAYANANDA SAGAR UNIVERSITY
Devarakagalahalli, Harohalli, Ramanagara - 562 112

SCHOOL OF ENGINEERING

DEPARTMENT OF COMPUTER SCIENCE & TECHNOLOGY

NEW PRODUCT DEVELOPMENT
Hands-On Session By Santosh Bhoosthali


Santosh Bhoosthali
Multi Skilled Mechanical Engineer
M Tech, Thermal & Fluids Engineering (June 2007),
Indian Institute of Technology (IIT) Bombay

Objectives

- Talk aims to foster creativity, encourage innovative thinking, and promote product design and development concepts.
- Students will learn how to design unique products.
- Educate students about Product design and development cycle.
- Highlight the importance of product sustainability in market.
- Provide step-by-step guidance on design procedures.
- Equip participants with practical knowledge to successfully register their designs.
- Industry standers process.

Date: 23rd March 2024
10:00 AM - 3:00 PM

Venue: DSULH and ASNI
Harohalli,
Kanakapura
Bengaluru

Organizers
Dr. Santosh Kumar J
Associate Professor, CST

Chairperson
Dr. M Shahina Parveen
Professor, CST

Convener
Dr. Uday Kumar Reddy K R
Dean-School of Engineering
Dr. M Shahina Parveen
Professor, CST



3-day workshop on “Innovation & Design Registration”

The Department of Computer Science & Technology has organized a 3-day workshop on Innovation & Design Registration from 13th March 2024 to 20th March 2024 in the classroom A541. The workshop was conducted in hybrid mode. The day-1 started on 13th March at 11:00 AM. The resource person for this session was Mr. Pranav Bhat, intellectual property strategist and Dr. M Shahina Parveen, Professor & Chairperson, CST. The session started with an introduction to the speaker by Prof. Ramandeep Kaur, Assistant Professor. Prof. Ramandeep Kaur told students about the importance of this workshop and handed over the session to Dr. M Shahina Parveen.

DAYANANDA SAGAR UNIVERSITY
SCHOOL OF ENGINEERING
DEPARTMENT OF COMPUTER SCIENCE & TECHNOLOGY

in association with Kalpana Club
is Organizing
3 Days Workshop on
INNOVATION & DESIGN REGISTRATION
Resource Persons

Adv. Pranav Bhat
Intellectual Property Strategist

Dr. M Shahina Parveen
Professor & Chairperson, CST

Objectives

- The workshop aims to foster creativity, encourage innovative thinking, and promote original design concepts.
- Students will learn how to protect their unique designs through registration processes.
- Educate students about IPR, including design patents, trademarks, and copyrights.
- Guide participants on the process of registering unique designs to prevent imitation and misuse.
- Engage participants in practical exercises to create unique design prototypes.

Date: 13th, 19th and 20th March 2024

Venue: A 541
Time: 11:00 AM to 12:50 PM

Organizers
Prof. Ramandeep Kaur
Assistant Professor, CST

Chairperson
Dr. M Shahina Parveen
Professor, CST

Convener
Dr. Uday Kumar Reddy K R
Dean-School of Engineering
Dr. Shahina M Parveen
Professor, CST

[Link to Join Online](#)

VALUE-ADDED COURSE ON “PYTHON FOR DATA ANALYSIS AND INTRODUCTION TO DATABRICKS”

The Department of Computer Science & Technology has organized a 30 Hours Value-Added Course on “PYTHON FOR DATA ANALYSIS AND INTRODUCTION TO DATABRICKS” from 21st February to 10th March 2024 in Hybrid mode. Students were able to understand the fundamental syntax of Python through readings, practice exercises, demonstrations, and writing Python code.

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SCHOOL OF ENGINEERING

DEPARTMENT OF
COMPUTER SCIENCE AND TECHNOLOGY
CORDIALLY INVITES YOU TO
VALUE-ADDED COURSE ON
“PYTHON FOR DATA ANALYSIS AND INTRODUCTION TO
DATABRICKS”

Blended-MODE
Target Audience: 4th Sem CST Students

Objectives of the Course:

- Understand the fundamental syntax of Python through practice exercises, demonstrations, and writing python code.
- Apply critical programming language concepts such as data types, control structures, functions, and boolean operators.
- Analyze a data set using Python packages.
- Visualize data attributes using python packages.
- Web application development using Streamlit package.

Venue: Online Zoom link and CST 4th semester classroom classroom
REGISTRATION LINK: [HTTPS://FORMS.GLE/3WVWR45CDWYCSJAL49](https://forms.gle/3WVWR45CDWYCSJAL49)

ABOUT THE DEPARTMENT:

- The Department of Computer Science & Technology has a unique structure to respond to the vibrant progress in Information to Intelligence Technology.
- The Department focuses on theoretical and application development to equip students, to acquire skills and competencies, to envision products and make them a reality. It includes Computer science applications framework and entrepreneurship.
- The philosophy to integrate business and Computing Skills equips one to become the driving force in creating innovative applications of Technology.
- Students are encouraged to acquire a deeper understanding of hardware, software, networks, databases and other elements through experimentation and practical work in small groups.
- Students acquire competencies in critical thinking, problem exploration, and problem solving with a focus on 'Project based learning'.

Course Structure

- This course is structured as a 30hr experience.
- This is an online and face-to-face course.
- Each week is marked as an F2F or online week.
- The online “lessons” allow you to work at your own pace through the assigned lessons that includes a video lecture, tutorial, demonstration, exercise and assignment.

Streamlit
<https://streamlit.io/>

Databricks
<https://community.cloud.databricks.com/recent?o=1054598309402955>

web application Development
access anytime and anywhere

https://docs.google.com/forms/d/7NLY3_CQB03_r6_c_nm9e477_BfyacOr1Ndsr3k3oX8Bs/edit

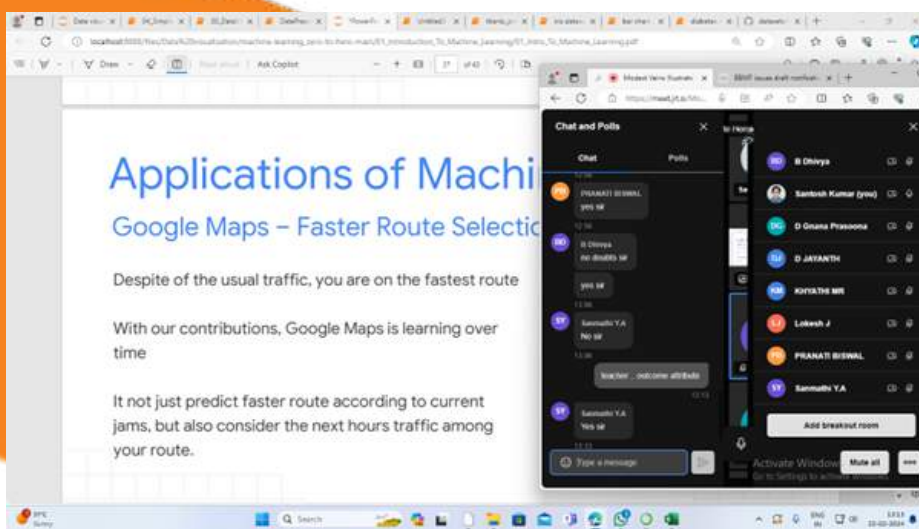
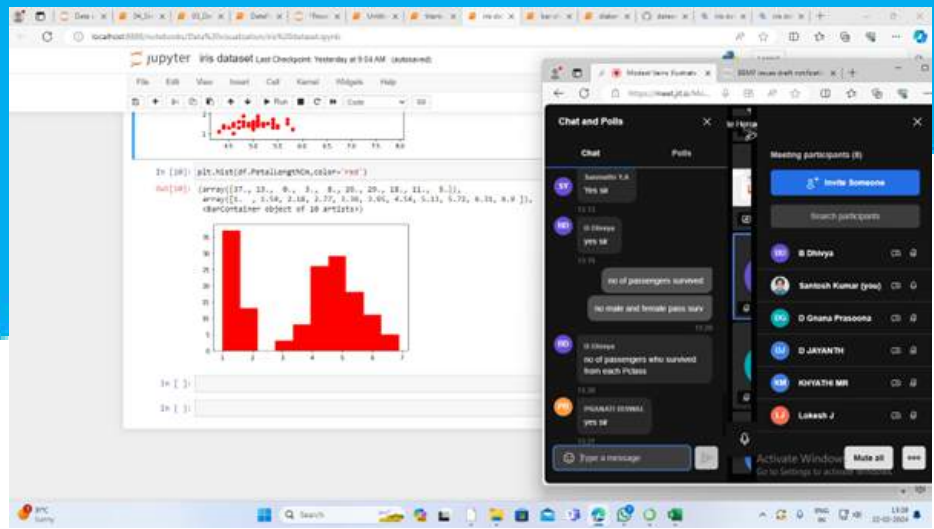
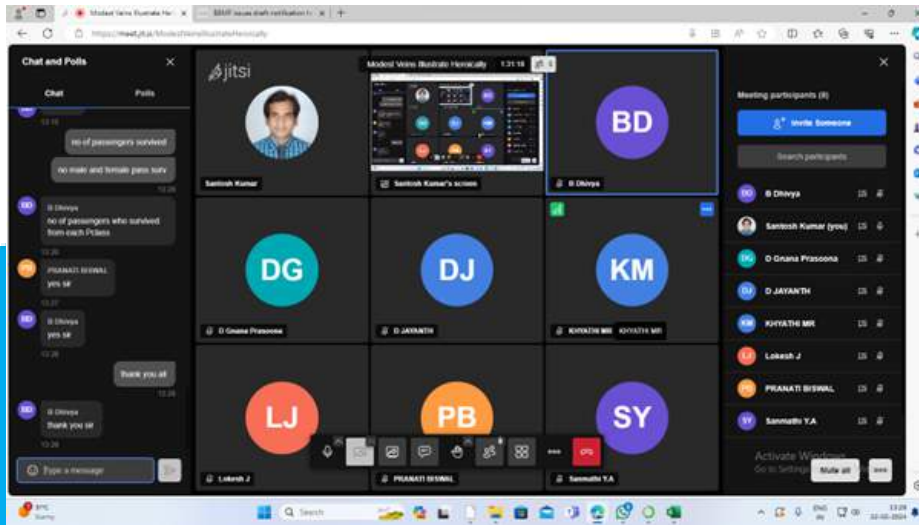
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Organizer
Dr. Santosh Kumar J

Chairperson
Dr. Shahina M Parveen
Professor, CST


Convener
Dr. Uday Kumar Reddy K R
Dean-School of Engineering

Sl.No.	Date	Content	Hours
1	21/02/24	Python-OVERVIEW,Python-ENVIRONMENT, Python - BASIC SYNTAX,Python - DATA TYPES, Python - VARIABLES, Python-OPERATORS	4
2	22/02/24	Python-DECISION MAKING, Python-LOOPS, Python-FUNCTION, Python-STRINGS, Python- LISTS, Python-ARRAYS	4
3	23/02/24	Python-DATA FRAMES, Python- PACKAGES, DATA RESHAPING, Python-CSV FILES, Python-EXCEL FILE, Python-JSON FILE	4
4	24/02/24	Understanding the datasets	4
5	2/3/24	Introduction to machine learning packages	4
6	3/3/24	Graph and plots introduction to Streamlit	3
7	9/3/24	Web applications development using streamlit	3
8	10/3/24	Databricks introduction and demonstration.	4




Two-Day Workshop on Mastering ReactJS

In an era where technology evolves rapidly, staying ahead of the curve is imperative for aspiring developers. To equip the budding talents in the field of Computer Science and Engineering (CSE) with cutting-edge skills, the Department of Computer Science and Engineering - Full Stack Development Students Club organized a transformative 2-day workshop titled "Mastering ReactJS: From Development to Deployment with GitHub." Held on the 13th and 14th of March 2024 at Dayananda Sagar University, Kudlu Gate, the workshop aimed to provide 3rd-year CSE students with comprehensive insights into ReactJS, a leading JavaScript library for building user interfaces. Under the guidance of Dr. Gousia Thahniyath, the esteemed faculty coordinator of the workshop, participants embarked on a journey to explore the depths of ReactJS and its integration with GitHub for seamless development and deployment. The two-day workshop on mastering ReactJS proved to be a transformative experience for 3rd-year CSE students. Empowered with comprehensive insights and practical skills, participants are poised to embark on their journey as proficient React developers, equipped to tackle real-world challenges with confidence and innovation. As technology continues to evolve, initiatives such as these serve as catalysts in nurturing the next generation of tech luminaries, driving innovation and progress forward.



SCHOOL OF ENGINEERING



FSD CLUB, DSU

Department of Computer Science and Engineering
Innovation Campus, Kudlu Gate, Hosur Road

Full Stack Development Student's Club

Mastering ReactJS: From Development to Deployment with GitHub

Student focus: 3rd Year

What You'll Learn:

- Building dynamic web applications with ReactJS.
- Version control and collaboration using GitHub.
- Streamlining deployment processes for React projects.
- Best practices for managing and scaling React applications.
- Troubleshooting common deployment issues.
- Integrating continuous integration and continuous deployment (CI/CD) pipelines.

Faculty Coordinator
Dr. Gousia Thahniyath


FSD CLUB Tech Tribe
by FSD Student's Club

Conveners
Dr. Udaya Kumar Reddy KR, Dean SOE
Dr. Girisha G S, Prof. and Chairperson CSE

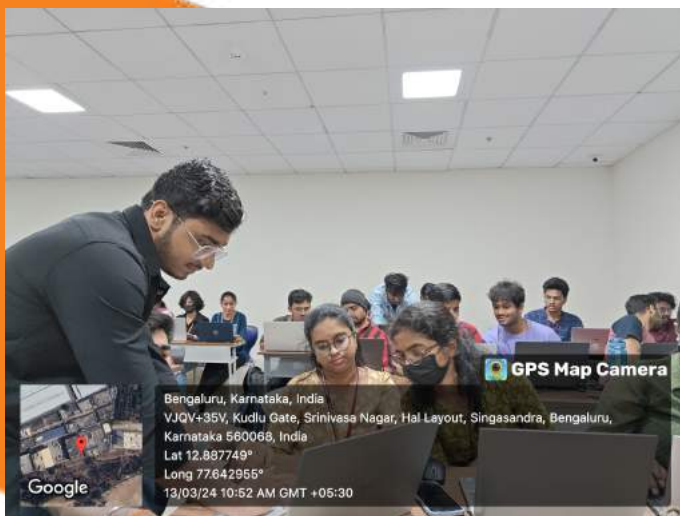
TIME
08:45 PM to 04:45 PM
Venue: F - 140

Wednesday & Thursday
13 & 14 March 2024

Scan/Tap to register!



Student Coordinators of FSD Club
Patel Muhammad : 81548 52286
Amar Kumar: 82927 72484
Ganesh Shinde: 93802 47969
+ Volunteers FSD Club



One-Day UI/UX Design Workshop

The Ganakanveshana Club of the Department of Computer Science and Engineering (CSE) organized a dynamic one-day workshop titled "UI/UX Design" on March 23rd, 2024. Designed specifically for 4th-semester students the workshop unfolded at the picturesque Dayananda Sagar University, Main Campus, Harohalli. Notably, the workshop's speaker was Kishore Kumar K, an 8th-semester student, bringing a fresh perspective and practical insights to the session. The primary objective of the workshop was to provide students with a comprehensive understanding of UI/UX principles and practical hands-on experience to empower students in creating engaging and intuitive digital experiences. Dr.Savitha Hiremath, played an instrumental role as organizer, ensuring the smooth execution and success of the workshop.

SCHOOL OF ENGINEERING DAYANANDA SAGAR UNIVERSITY
Devarakaggalahalli, Harohalli, Kanakapura Road, Ramanagara Dt - 562 112
Department of Computer Science and Engineering

One Day Workshop on UI/UX Design

On 23rd March at 11:00 am

Organized by
गणकानवेशना
Ganakanveshana Club

Target Audience:
4th sem students

Objectives

- Understanding the user needs
- Hands-on Web Design
- Prototyping and wireframing
- Portfolio / case study
- Industry Best Practices

Faculty coordinator : Dr Savitha Hiremath
Associate Professor

Venue:
A Block
DSU main campus

Kishore Kumar K
8th Sem, CSE-DSU



3-Day Workshop on “Basic Robotics Simulations”

The AI & ML department, in cooperation with YANTROVE STUDENT CLUB, organized a 3-Day Workshop on Basic Robotics Simulation.

Resource Persons:

Dr. Arun Ananthanarayanan, Associate Professor, Department of ECE

Prof. Abhinav Karan, Assistant Professor, Department of ECE

Prof. Pradeep Kumar K, Assistant Professor, Department of CSE (AI & ML)

Conveners:

Dr. Amit Bhatt, In-charge Vice Chancellor, DSU

Dr. Puttamadappa C, Registrar, DSU

Dr. Udaya Kumar Reddy KR, Dean, School of Engineering, DSU

Dr. Ramesh R Galigeke, Dean (Acad) Science & Technology

Dr. Jayavrinda Vrindavanam V, Professor & Chairperson CSE (AI & ML), DSU

Faculty Coordinators:

Prof. Subhash Mondal, Assistant Professor, Department of CSE (AI & ML)

Prof. Mitha Guru, Assistant Professor, Department. of CSE (AI & ML)

DAYANANDA SAGAR UNIVERSITY
DEVARAKAGGALAHALLI, HAROHALLI, NANAKAPURA RD, DIST. RAMANAGARA, KARNATAKA-562112

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

3 DAY WORKSHOP

ON BASIC ROBOTICS SIMULATION
BY YANTROVE

Topics:

- ✓ Introduction to Tinker CAD
- ✓ Introduction to basic microcontroller programming
- ✓ Software simulations of basic microcontroller projects

13th-15th March, 2024

1:50pm - 4:30pm

Dive into the world of robotics simulation at our workshop and revolutionize your understanding of innovation!

CONVENERS:
Dr. Amit Bhatt
In-charge Vice Chancellor, DSU
Dr. Puttamadappa C
Registrar, DSU
Dr. Udaya Kumar Reddy KR
Dean, School of Engineering, DSU
Dr. Ramesh R Galigeke
Dean (Acad) Science & Technology
Dr. Jayavrinda Vrindavanam V
Professor & Chairperson CSE (AI & ML), DSU

Faculty Coordinators:
Prof. Subhash Mondal, Assistant Professor, Dept. of CSE(AI&ML)
Prof. Mitha Guru, Assistant Professor, Dept. of CSE(AI&ML)

For any query contact:
Utpal Kumar-7870174597, Akshat Agarwal- 6398110810

JOIN NOW

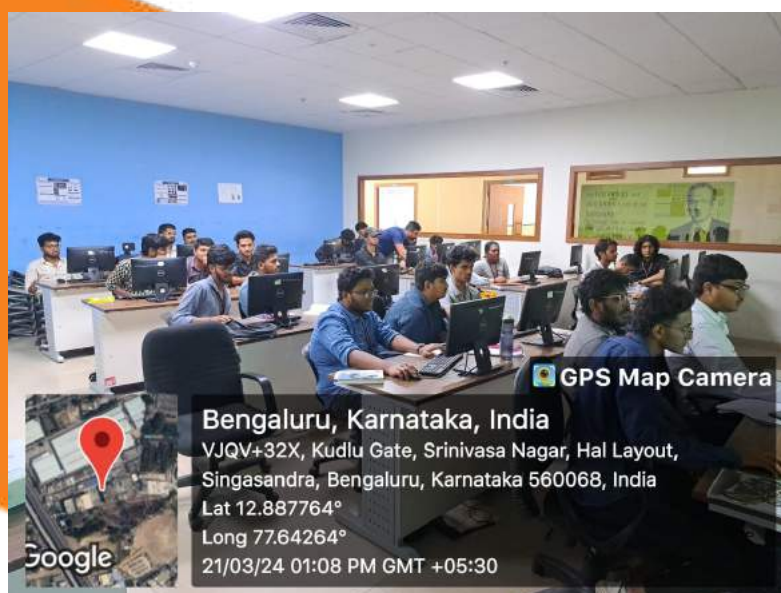
Value-Added Course on “ANSA”

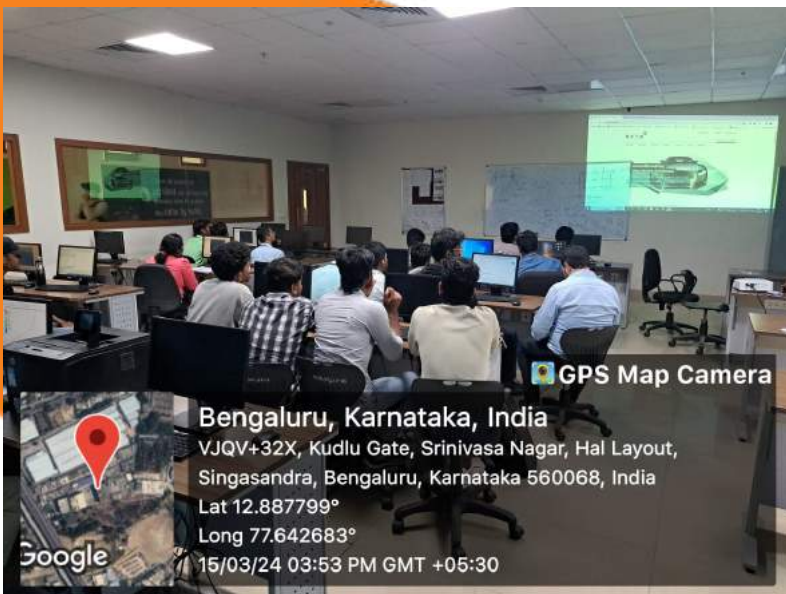
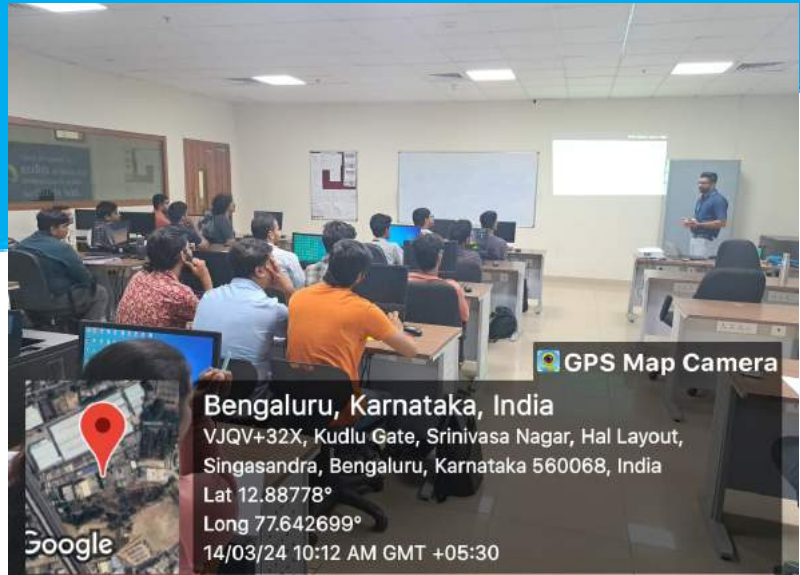
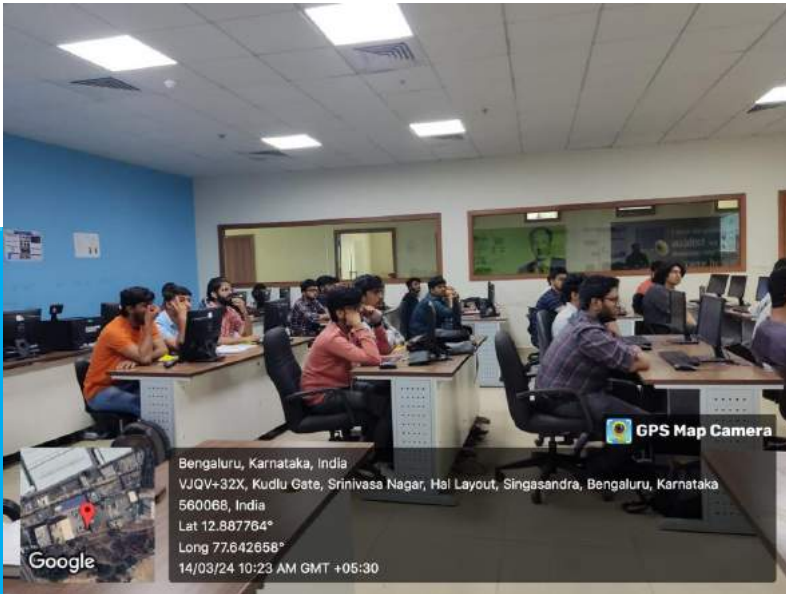
We are thrilled to share the exciting news of the ongoing Value-Added Course on ANSA Preprocessor for Finite Element Method (FEM), currently underway at our esteemed institution in collaboration with BETA SIMULATION SYSTEMS-Bangalore. Tailored meticulously for our 6th-semester students, this course represents a pivotal opportunity to cultivate indispensable skills in computational analysis, which stand as a cornerstone of modern engineering practices.

Led by the eminent Dr. Aruna M N, a distinguished trainer in the field, this course is designed to harness a wealth of academic and industrial insights, enriching the learning experience for all participants. Spanning from 14th March to 3rd May 2024, our Thursdays and Fridays are dedicated to immersive sessions covering vital topics such as FEA Basics, ANSA GUI navigation, Geometry Healing, Surface Meshing, and Batch Meshing. These sessions are thoughtfully complemented by hands-on practice, ensuring a holistic understanding where theoretical concepts seamlessly translate into practical proficiency in using ANSA Preprocessor.

Convener: Dr. Kamalbabu (Assistant Professor ME Department, Campus 3)

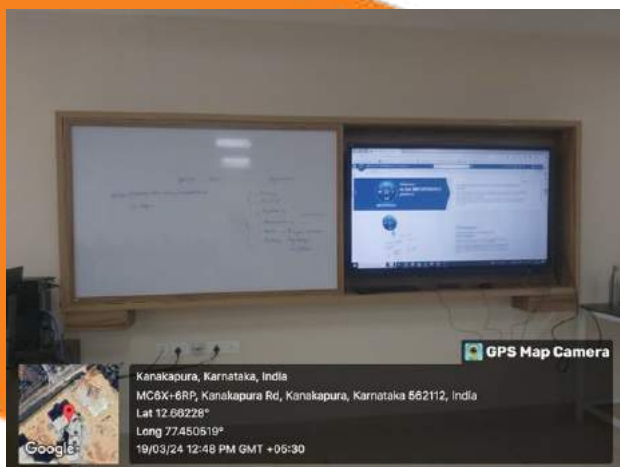
Co-convener: Dr. P M G Bashir Asdaque (Assistant Professor, ME Department, Campus 4)





Value Added Course on 3D experience by EDS Technologies on 3D Experience Catia

A value-added course on 3D Experience Catia was held on 19-21 March 2024 in association with EDS Technologies Bangalore in this training students got hands-on experience on 3D Experience Catia which was mainly on part design assembly and surfacing of different aerospace components. This training was conducted by Mr Sudheer Application Engineer at EDS Technologies and Prof Sripad Kulkarni Asst Prof, Dept of ASE, DSU.





SCHOOL OF ENGINEERING

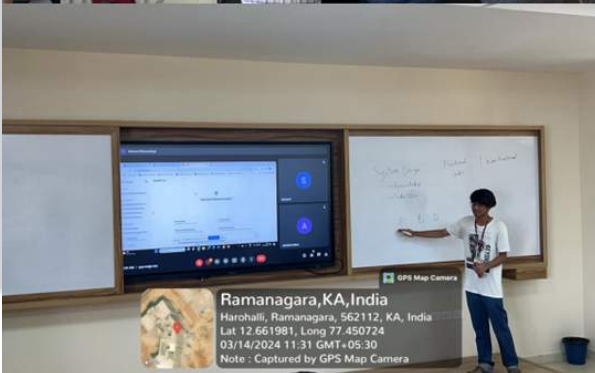


WEBINARS / SEMINARS / TECHNICAL TALKS

Tech Talk on Product Design and Development

The Department of Computer Science & Technology conducted a Tech Talk on Product Design and Development on 14/03/2024. Peer-to-peer teaching, also known as peer tutoring or collaborative learning, is a pedagogical approach where students learn from and teach each other under the guidance of a facilitator or instructor.

- ✓ Talk aims to foster product design and development process stages.
- ✓ Peer-to-peer discussion for developing the product.
- ✓ Confidence building to words developing product
- ✓ Highlight the importance of product sustainability in the market.
- ✓ Provide step-by-step guidance on design procedures.





Tips and Tricks of GATE – Informative session for 6th sem AIML

The AI & ML department organized a talk called “Tips and Tricks of GATE”. The session on "Career Opportunities with GATE (DS and AI)" hosted by Dayananda Sagar University and IMS Gate Academy offered invaluable insights into the evolving landscape of careers in Data Science (DS) and Artificial Intelligence (AI). By addressing crucial topics such as internships, AI advancements, GATE exam preparation, and industry trends, the session aimed to empower attendees with strategic knowledge for navigating the competitive job market in these fields. This report provides a concise overview of the key discussions and takeaways from the session, highlighting the importance of informed career planning and skill development in the domains of DS and AI.

Mr. Vineet Gupta was the speaker, he had pursued his Masters from IIITB & JBIMS, B. Tech from SPCE, Mumbai, JE selected at MSEB. And has 15 Years of Expertise. He has successfully guided 30,000+ GATE aspirants towards their IIT/PSU dreams.

Convener:

Dr. Jayavrinda Vrindavanam, Professor and Chairperson, Department of CSE (AI & ML)

Faculty Coordinator:

Dr. Vinutha N, Associate Professor, Department of CSE (AI & ML)





GPS Map Camera

Bengaluru, Karnataka, India

Teachnoid GPS Pvt Ltd A/C-080 Innovation Foundation, Hosur Rd, near Kudlu Gate, Kudlu Gate, Siddapura Nagar, Hal Layout, Singasandra, Bengaluru, Karnataka 560076, India

Subjects and Weightage

Sl. No.	Subject	Weightage (%)
1	General Aptitude	15
2	Card Data Structures	10
3	Relational Management	7
4	Theory of Computation	9
5	Operating System	4
6	Digital Logic	5
7	Algorithms	6
8	Engineering Maths	8
9	Discrete Maths	9
10	Computer Organization and Architecture	8
11	Computer Networks	8
12	Compiler Design	5

Sl. No.	Subject	Weightage (%)
1	General Aptitude	15
2	Python and Data Structure	4-12
3	Algorithms	6-8
4	Database Management	4-10
5	Math (Probability and Statistics)	8-10
6	Math (Linear Algebra)	4-6
7	Math (Calculus & Trigonometry)	3-6
8	Machine Learning (Supervised)	12-18
9	Machine Learning (Unsupervised)	8-12
10	Artificial Intelligence (AI)	8-12



GPS Map Camera

Bengaluru, Karnataka, India

Teachnoid GPS Pvt Ltd A/C-080 Innovation Foundation, Hosur Rd, near Kudlu Gate, Kudlu Gate, Siddapura Nagar, Hal Layout, Singasandra, Bengaluru, Karnataka 560076, India

Webinar on “ROBOTICS - A PRIMER”

The AI & ML department, in cooperation with YANTROVE STUDENT CLUB, organized a Webinar on Robotics – A Primer for 1Hr 30Min to 4th semester Students at DSU Harohalli Campus.

Mrs Shyni Thomas, an esteemed expert in the field of robotics, recently delivered a captivating online technical talk at Dayananda Sagar University, enlightening 2nd-year students on the vast realm of robotics and its diverse applications. Her talk was not just informative but also inspiring, shedding light on the transformative potential of robotics in various industries. Mrs. Thomas commenced her discourse by delving into the fundamentals of robotics, elucidating the integration of mechanical, electrical, and computer science principles in designing and developing robotic systems. She artfully navigated through complex topics, making them accessible and engaging for the students. Furthermore, she elaborated on the wide-ranging applications of robotics, from industrial automation and healthcare advancements to space exploration and artificial intelligence. Her insights into the future of robotics and its impact on society left the audience in awe of the endless possibilities that this field presents. Overall, Mrs. Shyni Thomas's technical talk was a resounding success, leaving an indelible impression on the young minds at Dayananda Sagar University and igniting their passion for exploring the fascinating world of robotics.

Resource person:

Mrs. Shyni Thomas, Senior Scientist, Center for AI and Robotics, DRDO

Conveners:

Dr. AMITH BHATT, In-charge Vice Chancellor, DSU

Dr. PUTTAMADAPPA C, Registrar, DSU

Dr. UDAYA KUMAR REDDY K R, Dean, SoE, DSU

Dr. RAMESH R GALIGEKERE, Dean (Academics), Science & Technology, DSU

Dr. JAYAVRINDA VRINDAVANAM V, Chairperson, and Professor, Department of CSE (AI & ML)

Faculty Coordinators:

Prof. Subhash Mondal, Assistant Professor, Department of CSE (AI & ML)

Prof. Mitha Guru, Assistant Professor, Department of CSE (AI & ML)

DAYANANDA SAGAR UNIVERSITY
 SCHOOL OF ENGINEERING
 DEVARAKAGGALAHALLI, HAROHALLI, KANAKAPURA RD, DIST. RAMANAGARA, KARNATAKA-562112
 DEPARTMENT OF CSE (ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING)

Presents a Technical Talk on
ROBOTICS- A PRIMER

23
 March, 2024

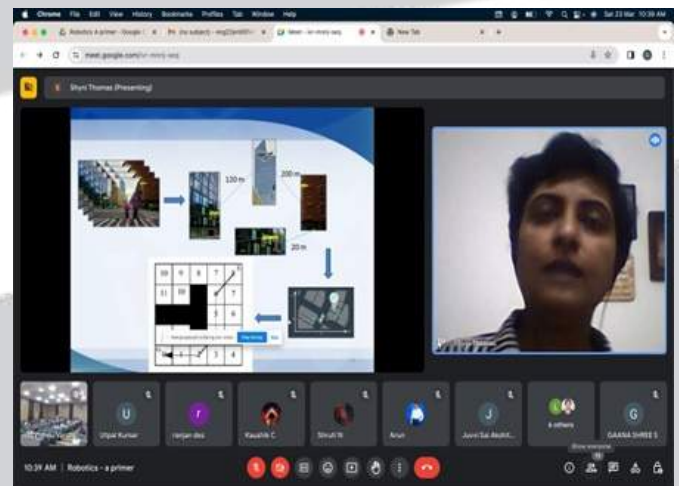
Starting at
9:40 AM

With:
SHYNI THOMAS
 SENIOR SCIENTIST,
 CENTER FOR AI & ROBOTICS, DRDO
 LHI, SoE, DSU Harohalli

CONVENERS:
 Dr. Amit Bhatt
 In-charge Vice Chancellor, DSU
 Dr. Puttamatappa C
 Registrar, DSU
 Dr. Udaya Kumar Reddy KR
 Dean, School of Engineering, DSU
 Dr. Ramesh R Galigeke
 Dean (Acad) Science & Technology
 Dr. Jayavinda Vrindavanam V
 Professor & Chairperson CSE (AI & ML), DSU

Organised By
YANTROVE

FACULTY COORDINATORS:
 Prof. Subhash Mondal
 Assistant Professor, Dept. of CSE(AI&ML)
 Prof. Miha Guru
 Assistant Professor, Dept. of CSE(AI&ML)



“Application of Proximity and Optical Sensors in Industry”

As a part of SAE Student Collegiate Club Activity-SoE-DSU, a guest lecture on “Application of Proximity and Optical Sensors in Industry” was conducted on 9th March 2024 at City Innovation Campus, DSU. The distinguished speaker was Mr. Deepak Sethi, an entrepreneur and former Mico-BOSCH Employee. The current 4th Sem, 6th Sem, and final-year mechanical engineering students benefited from this practically enriched session on sensors. Moreover, Mr. Sethi donated a few important things to our SAE club for future works



Webinar on "Exploring Paths in Data Science Careers"

The webinar titled "Exploring Paths in Data Science Careers" organized by the DataScience@DSU Club in collaboration with Intellipaath and the Department of CSE (Data Science) at DSU, " held on 9th March, 2024 organized by Prof. Shivamma D, Assistant Professor, Dept. of CSE (Data Science), and Prof. Monish L, Assistant Professor, Dept. of CSE (Data Science) proved to be a valuable resource for students and professionals interested in pursuing careers in data science. Led by esteemed speakers from both industry and academia, the webinar provided insights into the diverse career paths available within the field of data science, ranging from data analysis to machine learning engineering. Participants gained a deeper understanding of the essential skills and qualifications required to excel in data science roles, along with practical guidance on building a strong portfolio and navigating the job market.

Ajay Bharaj, a seasoned data scientist with extensive experience in the industry. Ajay shared his insights into industry trends, emerging technologies, and potential career growth opportunities within the data science field. His expertise and practical advice resonated with the audience, providing valuable insights and inspiration for those looking to carve out successful careers in data science. Overall, the webinar served as a platform for knowledge sharing, networking, and career guidance, empowering attendees to embark on their journey towards fulfilling and rewarding careers in data science.

Resource Person: Ajay Bharaj, Data Science Specialist
Mckinsey and Company

DAYANANDA SAGAR UNIVERSITY
School of Engineering
Devarakaggalahalli, Harohalli, Kanakapura Road, Ramanagara Dt.- 562 112

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING (DATA SCIENCE)
IN ASSOCIATION WITH
INTELLIPAATH
Organising
WEBINAR ON

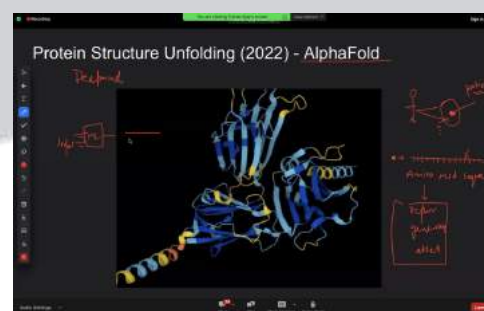
EXPLORING PATHS IN DATA SCIENCE CAREERS

RESOURCE PERSON: AJAY BHARAJ
Data Science Specialist
McKinsey & Company

Wednesday 9th March, 2024
at 2.00 PM to 4:00 PM online

Conveners:
Dr. Amit Bhatt
Vice Chancellor, DSU
Dr. Udaya Kumar Reddy KR
Dean, SoE
Dr. Shaila S G
Chairperson, Dept. of CSE (DS)

Organizers:
Prof. Shivamma D
Assistant Professor
Dept. of CSE (DS)
Prof. Monish L
Assistant Professor
Dept. of CSE (DS)

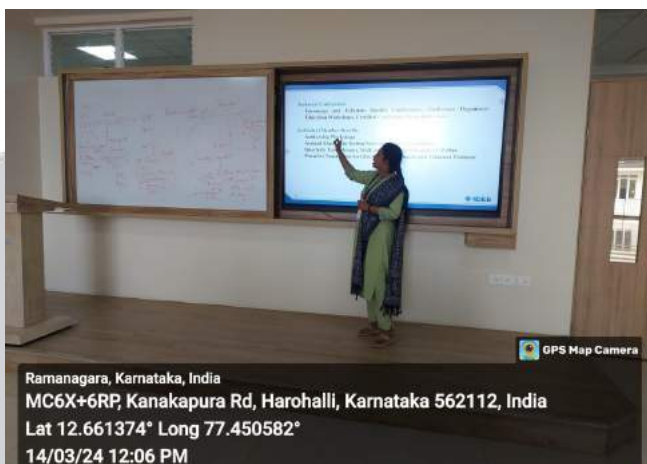


Tech Talk on “Datasphere: IEEE Data Science Exploration”

The DataScience@DSU Club, the Department of CSE (Data Science) organized a Talk on IEEE “Datasphere: IEEE Data Science Exploration” held on 14th March 2024 organized by Prof. Monish L, Assistant Professor, Dept. of CSE (Data Science), and Prof. Shivamma D, Assistant Professor, Dept. of CSE (Data Science).

Dr. Pushpa Mala S, a senior IEEE member and Life Member of ISTE, actively fosters collaboration and knowledge exchange within the scientific community. Her leadership in the EXECOM-IEEE Bangalore Section underscores her dedication to promoting excellence in electronics engineering.

Resource Person: Dr. Pushpa Mala S, Associate Professor, Dept. of EC & E, SOE, DSU



DAYANANDA SAGAR UNIVERSITY **IEEE**

School of Engineering
Devarakaggalahalli, Harohalli, Kanakapura Road, Ramanagara Dt., 562 112

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING (DATA SCIENCE)

DATASPHERE: IEEE DATA SCIENCE EXPLORATION

SPEAKERS

DR. PUSHPA MALA S
IEEE STUDENT BRANCH COUNSELLOR, ASSOCIATE PROFESSOR, SOE, DSU

Register Now

Thursday, March 14, 2024 11:00 am - 12:50 pm A Block 432

Conveners:	Organizers:	Student Co-ordinators
Dr. Udaya Kumar Reddy KR Dean, SoE	Prof. Monish L Assistant Professor, Dept. of CSE (DS)	Nitin Prajwal R Sujeeth Kumar
Dr. Shaila S G Chairperson, Dept. of CSE (DS)	Prof. Shivamma D Assistant Professor, Dept. of CSE (DS)	4th sem Dept. of CSE (DS)

Webinar on Campus Hero

The Department of Computer Applications in collaboration with Coding Ninjas has conducted an exclusive online speaker session(webinar) that ignited our student's passion and guided their career trajectory. The speaker for the session is Ms. Taruvar Mittal who has carved a niche at Google.



ALUMNI TALK

On March 21/03/2024, the Department of Computer Application has organised an Alumni Talk by Nilesch Krishna. He is an esteemed alumnus of Dayananda Sagar University with over 3 years of experience in supply chain Analytics and delivered a compelling technical talk at our institution. Nilesch Kumar currently serves as an SAP EDI Analyst in Montreal, QC for peerless clothing, showcasing his expertise in the field.

During the talk, Nilesch shared invaluable insights gleaned from his past experience at Zycus Infotech Pvt Ltd in Mumbai, where he served as a procurement business Analyst, and his current role at Peerless Clothing. He Shared light on the intricacies of SAP and its role in modern business operations, providing clarity on its functionalities and the significance of his role as an SAP EDI Analyst.

Nilesch Kumar emphasized the importance of continuous learning and skill development, urging students to obtain course completion certificates in Oracle and make use of library facilities for reference learning. He encouraged active participation in lecturing and leveraging platforms like LinkedIn to expand the profile of knowledge we gained and build professional networks.





SCHOOL OF ENGINEERING



EVENTS: PROFESSIONAL SOCIETIES / CLUB ACTIVITIES

Pre-Placement Training for 6th-semester students

The Department of Computer Science & Technology has organized a Pre-Placement series for 6th-semester students. The training was organized by Prof. Baskar Venugopalan, Associate Professor, CST, and Prof. Ramandeep Kaur, Assistant Professor, CST. This training is 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 first session of this training was delivered by Mr. Sayantan Kumar, Backend Developer, Societe Generale

The training started at 11:30 am with a welcome to Mr. Sayantan Kumar by Prof. Ramandeep Kaur and student Sohana introduction and hand over the session to the speaker. Mr. Sayantan started his session with a small interaction with students and later he explained how to prepare for placement and why it is important. This training armed students with essential skills, from REST APIs to client-server architecture and CRUD operations. As they embark on their professional journey, these foundational concepts pave the way for success.

Dayananda Sagar University

 SCHOOL OF ENGINEERING

Department of Computer Science & Technology

Organizes

Pre Placement Training Session 1 for 6th sem students

ON 30-03-2024

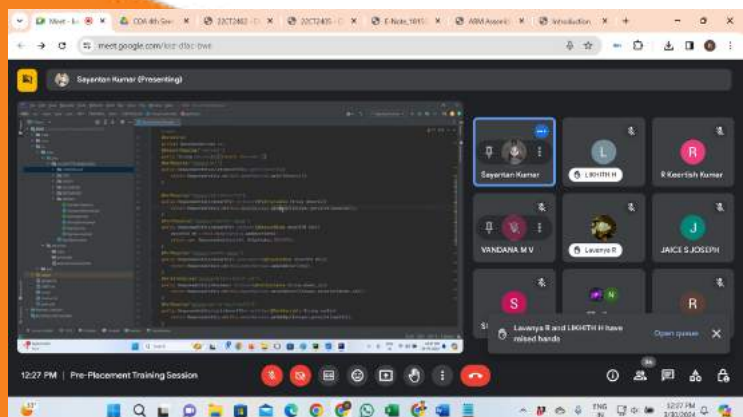
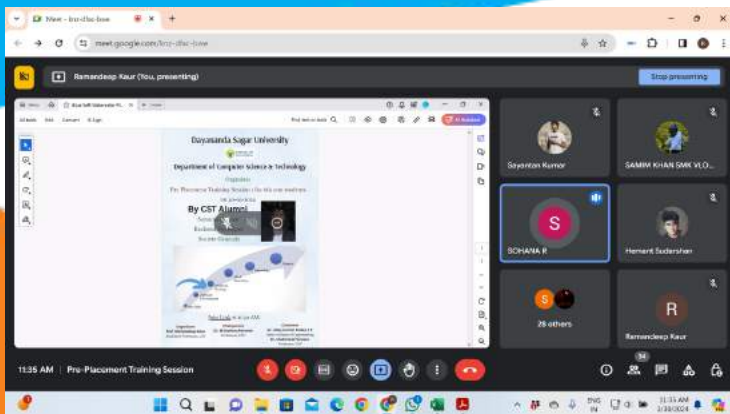
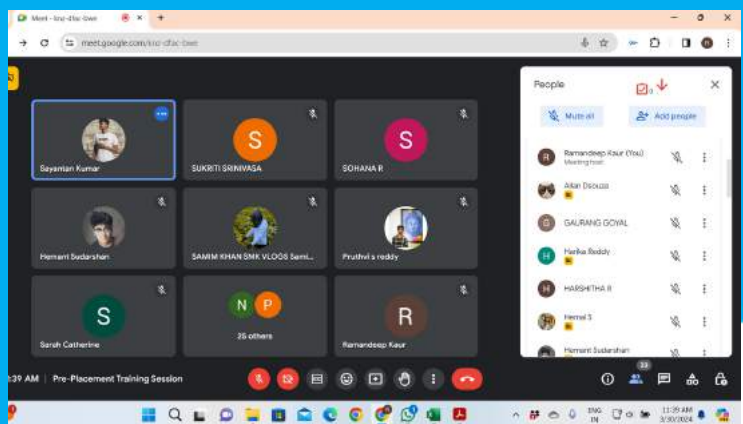
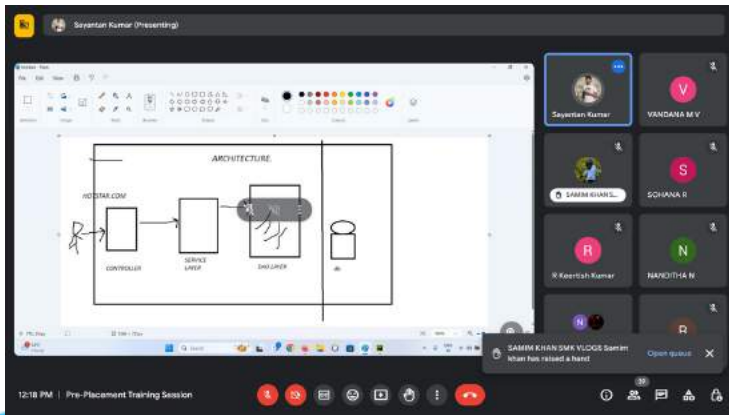
By CST Alumni

Sayantan Kumar
Backend Developer
Societe Generale



[Join Link](#) at 11:30 AM

Organizers Prof. Ramandeep Kaur Assistant Professor, CST	Chairperson Dr. M Shahina Parveen Professor, CST	Convener Dr. Uday Kumar Reddy K R Dean-School of Engineering Dr. Shahina M Parveen Professor, CST
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Parent Teacher Meeting for 8th& 6th semester students

Parents – Teachers Meeting was conducted by the Dept. of Computer Science and Technology for the parents of 8th & 6th semester students on March 30th , 2024. The meeting saw an encouraging turnout of parents in attendance, actively engaging in discussions with faculty members. Prof. Nivetha and Prof. Chithambarathanu presented the PPT with detailed insights into the academic performances of students, highlighting both strengths and areas needing improvement. Parents were provided with individualized reports and feedback on their ward's academic standing and were encouraged to actively participate in their ward's educational journey. The PTM also included discussions on the importance of extracurricular activities in holistic student development. Parents were informed about the various clubs, sports teams, and cultural activities available at the college, emphasizing the role of these activities in shaping an all-rounded individual. Dr. M Shahina Parveen, Chairman, shared observations regarding students' behavior, social interactions, and overall attitude in and outside the classroom. She gave a short introduction to department activities, the College website, important web pages, the Curriculum, and the important links on the website. Also, explained the curriculum design methodology and sought input from parents about the curriculum.



An introductory session on “DSU -ACM student chapter Activities ”

On the vibrant campus of Dayananda Sagar University (DSU) in Harohalli, an exciting and informative session unfolded on the 23rd of March 2024. Spearheaded by Dr. Meenakshi Malhotra, Associate Professor in the Department of Computer Science and Engineering (CSE) at DSU and the Faculty Sponsor of DSU-ACM Student Chapter. With the active participation of student office bearers, the event marked the beginning of a promising journey for DSU students passionate about computer science and technology. The introductory session on the DSU-ACM Student Chapter heralded a new era of opportunities for students at DSU, Harohalli campus. Under the guidance of Dr. Meenakshi Malhotra and the dedicated student office bearers, the chapter is poised to make significant strides in fostering academic excellence, innovation, and professional development among its members.

acm
STUDENT
CHAPTER
DAYANANDA SAGAR UNIVERSITY

**SCHOOL OF
ENGINEERING**

Department of Computer Science and Engineering,

Why
ACM?

Date: 23rd March
Time: 11am
Venue: LT-05

- Polish those skills: Dive into the ACM Digital Library and scoop up discounted learning.
- Master the networking game: Link up with over 100,000 tech wizards.
- Chase that dream job: Seal the deal with a shiny badge of excellence on your CV.
- Pay it forward to the tech world: Shape tomorrow's tech landscape through volunteering and community projects.
- To learn more, swing by www.acm.org

Student Coordinator: Bhavana
+919900094012

IoT Workshop's Project Exhibition

The Department of Computer Science and Engineering (CSE) at Dayananda Sagar University (DSU), in collaboration with AIC-DSU and DLithe, hosted a transformative event titled "IoT Project-based Idea Realization Workshop" from February 21st to March 2nd, 2024. On March 28th, the Dayananda Sagar University, Kudlu Gate campus, became a hub of technological innovation as it hosted a dynamic Project Exhibition as part of its IoT workshop. The event showcased the culmination of efforts and creativity of participants who delved into the realm of Internet of Things (IoT) technology. The Project Exhibition served not only as a platform for participants to exhibit their innovations but also as a catalyst for fostering a community of IoT enthusiasts and experts.

The event was coordinated by Dr Revathi V, Dr. George Fernandez I, Dr Rajesh T M, and Dr Pramod Kumar Naik, ensuring smooth execution and participant engagement. Prof. Pradeep Kumar T K, Prof. Navya Damodar, and Prof. Bharathy Vijayan spearheaded the organizing committee, overseeing the planning and implementation of the workshop.



Unnat Bharath Abhiyaan (UBA) on Solid waste management awareness

Unnat Bharath Abhiyaan (UBA) on Solid waste management awareness was conducted in Cheelur village (UBA Adopted village by DSU). Students across various streams of the School of Engineering- Mechanical Department, Computer Science Department and its cluster, Electronics and Aerospace Department Volunteered to Conduct an awareness drive seeking waste management practices adopted by village households and the PDO office.

The student volunteers also visited the Government high school, Cheelur Village, and interacted with high school faculty and students about Solid waste management practices. Dr Vinayak Hemadri- Chairman of the Mechanical Department, Abhijith N- Assistant Professor of the Mechanical Department and UBA and NSS Co-ordinator for DSU- SoE, Dr Bhagya Jyothi- Physical Education Director of DSU and Mr. Madhu- Instructor of Mechanical Department assisted the students throughout for smooth conduction and Co-ordination during the event. Ms Shamantha Suryapraksh- Director of Student Affairs arranged the necessary resources for the smooth conduction of the event.



International Forest Day

Department of Mechanical Engineering, DSU - SoE commemorated International Forest Day on March 21st, 2024 in Government High School, Cheelur Village, Harohalli, Hobli. Students of 4th-semester Mechanical Engineering volunteered for this event and interacted with students about the importance of forests.

Dr Vinayak Hemadri- Chairman of the ME Department, and Abhijith N- Assistant Professor of the ME Department addressed the high school students about the importance of forest conservation for a sustainable future. The staff of the high school was welcoming and eager to interact more with us in the future. Dr Bhagyajyothi- Director of Physical Education, and Mr. Madhu- Instructor, Mechanical Engineering coordinated with us for the smooth conduction of the event. Ms. Shamantha Suryaprakash- Director of Student Affairs helped us in arranging necessary resources and coordination.





Cheelur, Karnataka, India
JCVC+J2F, Cheelur Cross, Cheelur, Karnataka 562117, India
Lat 12.644653°
Long 77.419895°
21/03/24 11:02 AM GMT +05:30



Ramanagara, KA, India
Harohalli, Ramanagara, 562112, KA, India
Lat 12.644633, Long 77.419906
03/21/2024 10:47 AM GMT+05:30



Ramanagara, KA, India
Harohalli, Ramanagara, 562112, KA, India
Lat 12.644551, Long 77.419937
03/21/2024 11:04 AM GMT+05:30



Ramanagara, KA, India
Harohalli, Ramanagara, 562112, KA, India
Lat 12.644227, Long 77.419760
03/21/2024 10:41 AM GMT+05:30



LABATHON

On March 15th, 2024, a cohort of 20 6th-semester students from the Electronics and Communication Engineering (ECE) department actively participated in the Labathon event organized by Nokia at Manyata Tech Park, Nagawara ORR, Bangalore 560045. Dr. Saara K, serving as their mentor, accompanied the students and actively engaged in the event. The primary objective of the Labathon was to provide participants with comprehensive insights into the generation of telecom, radio setup, and the flow of 5G technology. Through a combination of lectures and lab visits, students had the unique opportunity to delve into the practical applications and nuances of telecommunications, gaining invaluable experiential knowledge in their field of study.



The Mathematical Vision of Maryam Mirzakhani

On March 13th, 2024, the 6th semester Electronics and Communication Engineering (ECE) students had the honor of attending an event organized by the Infosys Science Foundation, facilitated by the guidance of Dr. Mukti C, Dr. Vinu, and Dr. Saara K, who provided invaluable support throughout the activity. The event granted students a remarkable opportunity to engage in a screening of the documentary titled "The Mathematical Vision of Maryam Mirzakhani" in commemoration of the International Day of Mathematics 2024. This documentary not only celebrated the profound mathematical achievements of Maryam Mirzakhani but also served as an inspirational testament to the transformative power of mathematical inquiry.

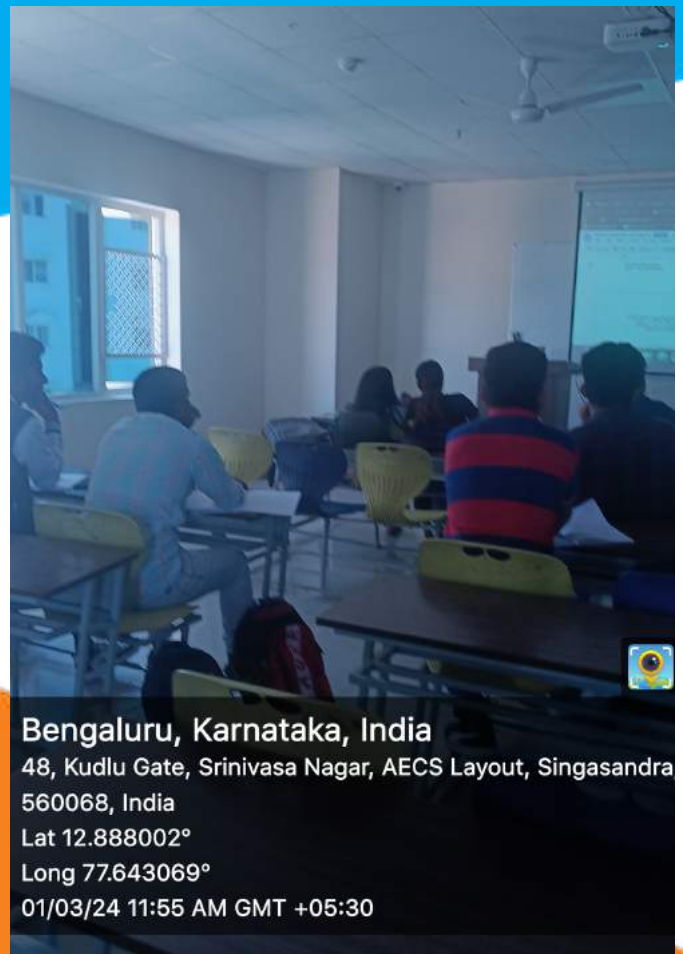


Short Term Training on “Java Coding Skill Test”

The DataScience@DSU Club, the Department of CSE (Data Science) conducted a short-term training on “Java Coding Skill” held on 1st March 2024 organized by the faculties of the CSE(Data Science) department. The session was taken by Dr. Kakoli Bora, Associate Professor, who gave an insight on problem-solving using the JAVA programming language along with a technical quiz on aptitude problem-solving. The students actively participated on both days.



The poster features the logos of Dayananda Sagar University, the Computer Society of India, and the Data Science Department. The text reads: "Dayananda Sagar University, School of Engineering, Kudlu Gate, Hosur Road, Bengaluru - 560068. Department of Computer Science and Engineering (Data Science). In association with CSI, DataScience@DSU Club is organizing. A Short term training on 'Java Coding Skill Test'. Venue: T-303, Block 'B', Campus-3. Date & Time: 01.03.2024 @ 11:00 AM. Convener: Dr. Shaila S G, Professor & Chairperson, Dept. of CSE (DS), SOE, DSU. Target Audience: 6th Semester Data Science Students. Co-ordinators: Dr. Kakoli Bora, Associate Professor, CSE(Data Science), Campus-3, SOE, DSU."



Bengaluru, Karnataka, India
48, Kudlu Gate, Srinivasa Nagar, AECS Layout, Singasandra
560068, India
Lat 12.888002°
Long 77.643069°
01/03/24 11:55 AM GMT +05:30

Quiz on "AptiPrecision: Fine-Tuning Numerical Abilities"

The DataScience@DSU Club, the Department of CSE (Data Science) organized a Quiz "AptiPrecision: Fine-Tuning Numerical Abilities" held on 7th March 2024 organized by Prof. Shivamma D, Assistant Professor, Dept. of CSE (Data Science), and Prof. Monish L, Assistant Professor, Dept. of CSE (Data Science).

AptiPrecision: Fine-Tuning Numerical Abilities is aimed at enhancing participants' numerical proficiency through targeted strategies and practice. By delving into numerical concepts and problem-solving techniques, attendees gain valuable insights into optimizing their performance in aptitude tests and exams. Through practical guidance and interactive sessions, the webinar equips participants with the skills and confidence needed to tackle numerical challenges effectively. With a focus on precision and efficiency, AptiPrecision empowers individuals to refine their numerical abilities, ultimately leading to improved academic and professional outcomes.

DAYANANDA SAGAR UNIVERSITY
School of Engineering
Devarakaggalahalli, Harohalli, Kanakapura Road, Ramanagara Dt.- 562 112

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING (DATA SCIENCE)

In association with
Codechef Club & DataScience@DSU Club
Organising

**"APTIPRECISION:
FINE-TUNING NUMERICAL
ABILITIES"**

Date :
7th March 2024
at 12:00 pm-4:00 pm

Venue :
A432 'A' Block,
Harohalli, SOE,
DSU

Conveners:
Dr. Amit Bhatt
Vice Chancellor, DSU
Dr. Udaya Kumar Reddy KK
Dean, SOE
Dr. Shailla S G
Chairperson, Dept. of CSE (DS)

Organizers:
Prof. Shivamma D
Assistant Professor
Dept. of CSE(DS)
Prof. Monish L
Assistant Professor
Dept. of CSE(DS)

Student Co-ordinators
Nile Prajwal R
Janardhan K S
Sujeeth Kumar
Virus Raj Yamahi
Pavan kumar

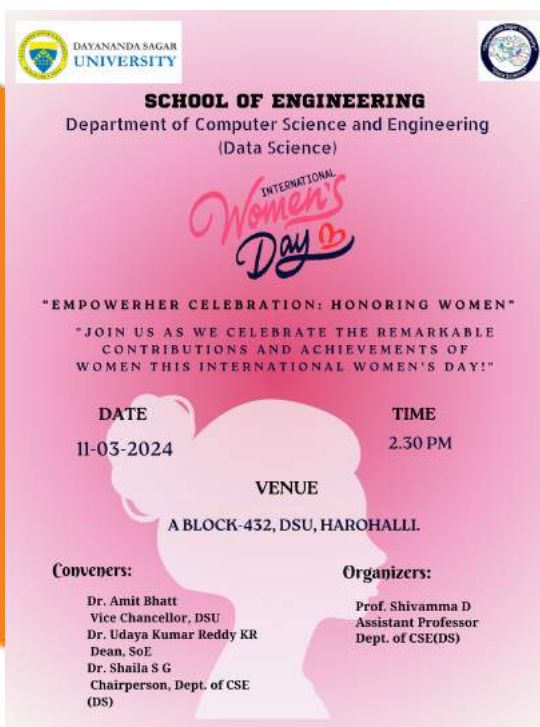


Women's Day Celebration

"Empower Her Celebration: Honouring Women" The DataScience@DSU Club, the Department of CSE (Data Science) organized a Women's Day Celebration "EMPOWER HER CELEBRATION: HONORING WOMEN" held on 11th March 2024 on the occasion of International Women's Day organized by Prof. Shivamma D, Assistant Professor, Dept. of CSE (Data Science) the event aimed to commemorate International Women's Day and honor the contributions of women in various fields. The celebration featured a series of engaging activities, including inspirational talks, panel discussions, and cultural performances, showcasing the achievements and empowerment of women. Participants expressed their appreciation for the event's insightful discussions and uplifting atmosphere, highlighting the importance of recognizing and supporting women's endeavors in society. Overall, the "Empower Her Celebration: Honouring Women" served as a meaningful tribute to women's achievements and a platform for promoting gender equality and empowerment.

Eminent Women Role Models of DSU Invited:

- Dr. Mahalakshmi P, Chairperson, Dept. of Mathematics
- Dr. Pushpamala S, Professor, Dept. of ECE
- Dr. Savitha Hiremath, Professor, Dept. of CSE
- Prof. Nandhini, Assistant Professor, Dept. of CSE



The poster is pink and white with a silhouette of a woman's head. It features the Dayananda Sagar University logo and the School of Engineering logo. The text includes the event title, date, time, venue, and names of the convener and organizers.

DAYANANDA SAGAR UNIVERSITY

SCHOOL OF ENGINEERING
Department of Computer Science and Engineering
(Data Science)

INTERNATIONAL Women's Day

"EMPOWERHER CELEBRATION: HONORING WOMEN"

"JOIN US AS WE CELEBRATE THE REMARKABLE CONTRIBUTIONS AND ACHIEVEMENTS OF WOMEN THIS INTERNATIONAL WOMEN'S DAY!"

DATE
11-03-2024

TIME
2.30 PM

VENUE
A BLOCK-432, DSU, HAROHALLI.

Conveners:
Dr. Amit Bhatt
Vice Chancellor, DSU
Dr. Udaya Kumar Reddy KR
Dean, SoE
Dr. Shailla S G
Chairperson, Dept. of CSE (DS)

Organizers:
Prof. Shivamma D
Assistant Professor
Dept. of CSE(DS)



CODE-A-BIT '24

The DataScience@DSU Club, the Department of CSE (Data Science) organized CODE-A-BIT'24, held on March 21st and 22nd, 2024, at Gallery Hall-01 & GE Healthcare A-Block, Campus-03, showcased the technical prowess and innovation of students from DSU's School of Engineering. Organized by the Department of Computer Science and Engineering - Data Science, the event featured four rounds: Innovative Interface, Frontend Knockout, Mind Sprint, and Data Fusion. Participants demonstrated their skills in UI design, web development, quiz challenges, and data analytics. Chief Guest Mr. Vinod Shankar, CEO of AIC-DSU, graced the event, emphasizing our commitment to academic excellence and technological advancement.

Round 1: Innovate Interface - UI Design Participants redesigned the ISRO website's user interface, focusing on visual appeal and appropriateness. They showcased their design abilities by conveying ISRO's mission, vision, brand identity, and values effectively.

Round 2: Front-End Knockout: In this round, participants navigated through three levels of increasing complexity, testing their ability to recreate website designs using front-end technologies like HTML, CSS, and JavaScript.

Chief Guest: Mr. Vinod Shankar, CEO of AIC-DSU



Dayananda Sagar University
School of Engineering, Kudlu Gate, Bengaluru - 560068
Department of Computer Science and Engineering (Data Science)

CODE-A-BIT '24
GET YOUR GEEK ON

MAR 21 Round 1: Innovate Interface

MAR 21 Round 2: Front End Knockout

MAR 22 Round 3: Mind Sprint

MAR 22 Round 4: Data Fusion

PARTICIPATE AND WIN
Winners for each round
Top 3 Event Winners

Event Organizer:
Dr. Kakoli Bora
Associate professor, Dept. of CSE(DS)

Event Coordinators:
Yashraj VB
Assistant Professor, Dept. of CSE(DS)
Shahwar Ara Kamat S
Assistant Professor, Dept. of CSE(DS)
Manjula Gowda H
Assistant Professor, Dept. of CSE(DS)

Event Conveners:
Dr. Amit R Bhatt
Vice-Chancellor, DSU, DSU
Dr. Udaya Kumar Reddy K R
Dean, School of Engineering, DSU
Dr. Shaila S G
Chairperson, Dept. of CSE(DS)

FOR FURTHER DETAILS CONTACT
Abhishek - 9353501969
Shubham - 9102586642
Srinivasa - 7406008813



Awareness on student exchange program

The Department of Computer Applications in collaboration with the Department of International Affairs organized an awareness session on Student Exchange Program Awareness Session for all semesters of BCA and 1st sem MCA students on 06-03-2024 and 07-03-2024. The session aimed to provide students with insights into the benefits and opportunities offered by student exchange programs.

The session has proved to be a valuable initiative in promoting internationalization and cultural exchange among BCA and MCA students. By equipping students with the necessary information and resources, the session empowered them to consider and pursue enriching opportunities beyond their academic confines.

The poster features the Dayananda Sagar University logo and name at the top left. The main title is 'DEPARTMENT OF COMPUTER APPLICATIONS and Department of International Affairs'. Below this, it says 'Cordially invites for AWARENESS ON STUDENT EXCHANGE PROGRAM' over a background image of the university building. The poster is divided into three columns: Schedules, Speaker, and Organizers.

Schedules	Speaker	Organizers
BCA II sem : Wed 10-11pm BCA IV sem : Wed 2-3pm MCA I sem : Thu 2-3pm BCA VI sem : Sat 9-10am MCA III sem : Sat 2-3pm	Ms. Supriya Mathew Vice President International Affairs	Dr. Sandhya Madhuri Asst Prof. Vaishnavi K C



Women's Day Celebration

Department of Computer Applications at Dayananda Sagar University celebrated Women's Day at DSU, Kudlu gate campus amidst much fanfare involving staff and management. The celebrations started with the setting up of an attractive floral decoration of women with wings to fly high in the reception area which turned out to be attractive and mesmerizing and took everyone into a world of festivity and fun.

The event started with this year's Women's Day oath delivered by Dr. Sandhya Mathuri G. and henceforth the inspiring talk by Dr. Vasanthi Kumari P. chairperson of Computer applications.

As the celebratory spirit continued, the event proceeded with dance performances presented by students MCA I semester student and BCA IV semester students, a speech about the inspired author and inspired women by BCA II semester and BCA IV semester students, singing by BCA II semester student and poster presentation done by BCA IV semester student.



School of Engineering
Department of
Computer Application



Celebrate
Women's
Day with
Events on
March 9th!

1. Poster or Collage making
2. Talk on favourite Female author
3. Dance / Singing
4. Share your story that inspired you and why

Lets all participate in
this event and take
memories
with us!

Faculty coordinator
Prof Dr. Sandhya Mathuri
Prof. Alpa Patel
Prof Priyanka Rukesh



WORLD WATER DAY SLOGAN CONTEST

On the occasion of World Water Day, the Department of Computer Application at Dayananda Sagar University organized an event centered around the theme of water conservation. The celebration took place on 22-03-2024 at the Kudlu campus, bringing together students to raise awareness about the importance of preserving our planet's most precious resource.

The highlight of the event was a slogan-writing contest, which aimed to encourage creative thinking and meaningful reflection on the significance of water conservation. The contest was uniquely structured, requiring participants to form groups of two people. This collaborative approach fostered teamwork and encouraged participants to exchange ideas while crafting their slogans.



“Searching THE VOICE” Karaoke Singing Competition

On 23rd March, 2024 in commemoration of World Water Day, a special Karaoke Singing Competition was organized at DSU. The event aimed to raise awareness about water conservation and sustainability through the universal language of music. Here is a comprehensive report on this unique occasion. The theme of the competition emphasized the importance of preserving water resources for future generations. Participants were invited to register for the competition in advance, with a special emphasis on selecting songs related to water, rivers, oceans, or environmental conservation. The event aimed to provide a platform for aspiring singers to showcase their skills, entertain the audience, and foster a sense of camaraderie among participants.



Dayanand Sagar University,
School of Engineering

Department of Computer
Application

on the occasion of
Water
for Peace

SCAN ME
FOR REGISTRATION

SEARCHING
THE VOICE
Karaoke Singing
Competition

On : 23-03-2024
Venue: T302 at 10.00 AM

- 1) SONG DURATION 4-6 MINS
- 2) BLUETOOTH SPEAKER AND MIC ALLOWED (BRING YOUR OWN)
- 3) NO LANGUAGE BARRIER
- 4) DRESS CODE FOR PARTICIPANT- BLUE.
- 5) BRING YOUR OWN KARAOKE TRACK
- 6) SCAN THE QR CODE FOR REGISTRATION
- 7) BOTH FACULTY AND STUDENTS CAN PARTICIPATE

FACULTY COORDINATOR
PROF.SUMANA SG
PROF. SMITA KODALLIHIREMATH
PROF. PRIYANKA PANDEY

Convenor
Dr. Vasanthi Kumari P.





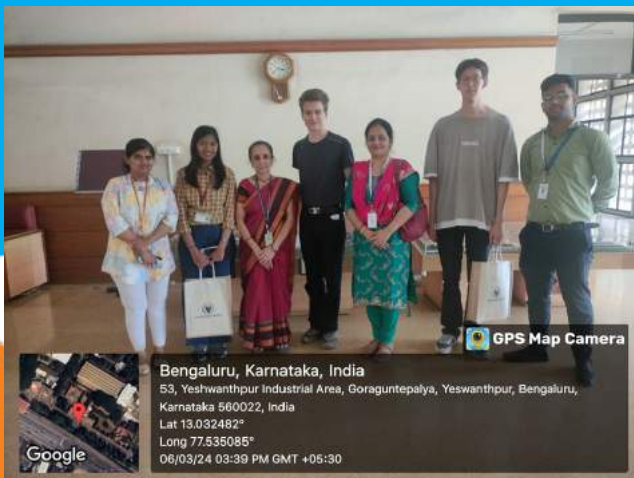
SCHOOL OF ENGINEERING



INDUSTRIAL VISITS

Industrial Visit to CMTI Bangalore

The industrial visit organized by Dr. Saara K at CMTI Bangalore on March 6th, 2024, offered MIET Russian international students an invaluable opportunity to explore cutting-edge technologies in manufacturing. Throughout the visit, students gained firsthand insights into Sensor Development Technology, Advanced Material and Characterization, Micro Nano Manufacturing, Additive Manufacturing, and the Noise and Vibration Laboratory. From learning about sensor calibration to witnessing the precision of micro and nano manufacturing, the visit provided a comprehensive understanding of modern engineering practices. Ms. Sumeha Banu N and Mr. Aashish from the international department commended the immersive experience. This visit not only bridged theoretical knowledge with practical applications but also facilitated cross-cultural exchange, preparing students to become future leaders in the global manufacturing landscape.



Industrial Visit to MOX ISRO ISTRAC

The DataScience@DSU Club, the Department of CSE (Data Science) organized an Industry visit to MOX ISRO ISTRAC for 4th Semester students held on 27th March 2024 organized by Prof. Shivamma D, Assistant Professor, Dept. of CSE (Data Science).

During the industry visit to MOX ISRO ISTRAC, Mr. Sankar Madaswamy, Manager of HRD at ISTRAC/ISRO, provided insightful explanations about the organization's operations and its significance in the aerospace sector. He elaborated on the critical role of ISTRAC (ISRO Telemetry, Tracking and Command Network) in tracking and controlling satellites launched by the Indian Space Research Organisation (ISRO). Mr. Madaswamy highlighted how ISTRAC's advanced telemetry, tracking, and command capabilities enable real-time monitoring and management of satellite missions, ensuring precise navigation and communication. He also shed light on the complex technical infrastructure and sophisticated systems employed by ISTRAC to support various space missions, emphasizing its contributions to India's space exploration endeavors.

During the visit to MOX ISRO ISTRAC, the students had the privilege of meeting Ms. Nindini Harinath, who led the operations team at ISTRAC, ensuring the successful mission operations of Chandrayaan-3 and Aditya. Ms. Harinath shared valuable insights into the planning, execution, and operational aspects of the Chandrayaan-3 mission, which is India's ambitious lunar exploration project. She provided a comprehensive overview of the mission's objectives, scientific goals, and the advanced technology deployed for lunar exploration. Ms. Harinath also discussed the challenges encountered during the mission and the innovative solutions devised by ISRO's team to overcome them. Her interaction with the students offered them a rare opportunity to learn firsthand about the intricacies of space missions and the pivotal role played by operational directors in ensuring their success. Overall, the meeting with Ms. Nindini Harinath enriched the students' understanding of India's space exploration endeavors and inspired them to pursue careers in space research and technology.





SCHOOL OF ENGINEERING



FACULTY ACHIEVEMENTS



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

- Dr. M. Shahina Parveen published a patent on "SMART KEY WITH PEPPER SPRAY HOLDER" Application Number: 411334-001.
- Dr. M. Shahina Parveen published a patent on "UNIQUE WATCH WITH A DOODLE DESIGN AND COMBINATION OF SHAPES" Application Number: 412028-001.
- Dr. M. Shahina Parveen published a patent on "BUTTERFLY RING IN PAIRS" Application Number: 412029-001.
- Dr. M. Shahina Parveen published a patent on "ACTION CAMERA INTEGRATED WITH A SOLAR CHARGER" Application Number: 412036-001.
- Dr. M. Shahina Parveen, Mr. Punith Raj, Mr. Shushank, and Mr. Vaibhav S, have published a research article titled “Enhancing Hydroponic Efficiency using IOT and Machine Learning Algorithms” at International Conference on Emerging Research in Computing, Information, Communication, Artificial Intelligence and Machine Learning, held during 23-24 February 2024 at NMIT, Bengaluru and received the Best Paper Award in ERCICAM-2024.





Dr. Rajesh T M
Associate Professor
Department of CSE

- Dr. Rajesh T M, Associate Professor, at Dayananda Sagar University, showcased his expertise and commitment to academic excellence by participating as a Member of the Technical Program Committee at the 2024 IEEE International Conference on Contemporary Computing and Communications (InC4). The conference, organized by the Department of Computer Science and Engineering at CHRIST (Deemed to be University) in Kengeri Campus, Bangalore, served as a premier platform for scholars and researchers to exchange insights and advancements in contemporary computing and communication technologies.





Dr. Joy Mandal
Assistant Professor
Department of Mechanical Engineering

- Dr. Joy Mandal has Participated Entrepreneurship-cum-Skill Development Program (E-SDP) was sponsored by the Development Commissioner, Ministry of MSME, Government of India, and organized by the National Institute of Technology Sikkim from 08th March to 12th March 2024.





Dr. Arun Balodi
Professor & Chairperson
Department of ECE

- Dr Arun Balodi conducted a workshop on LaTeX and Zotero organized by Uttaranchal University, Dehradun, scheduled to take place over two days. The workshop aims to equip participants with essential skills and knowledge pertinent to scientific manuscript writing and reference management.

**"A comprehensive workshop on
LaTeX and Zotero"**
Organized by
Uttaranchal University, Dehradun, Uttarakhand, India.

Dr. Arun Balodi, Professor & Chairman,
Electronics and Communication Engineering

School of Engineering,
Dayananda Sagar University, Bangalore.

A comprehensive workshop on LaTeX and Zotero Dr. Arun Balodi 26-27 March 2024 1 / 36



Dr. Saara K
Associate Professor
Department of ECE

- Dr. Saara published a research paper, titled "Multilayer coating-assisted gold-encapsulated tilted fiber Bragg grating biosensor design" in the Journal of Optics by Springer, which represents a significant leap forward in biosensing technology.

J Opt
https://doi.org/10.1007/s12596-024-01711-6

RESEARCH ARTICLE

Multilayer coating-assisted gold-encapsulated tilted fiber Bragg grating biosensor design

P. B. Prathap^{1,2} · K. Saara¹

Received: 29 December 2023 / Accepted: 2 February 2024
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Abstract To cope with up high rise in healthcare demands and accurate clinical decisions the fiber Bragg grating (FBG) sensors have performed superior over the traditional analog sensors for varied clinical decisions. The higher sensitivity and resolution toward accurate sensing make FBG a viable technology for clinical decision systems including biomechanical sensing, physiological sensing, non-invasive surgery, and biosensing. Depth assessment indicates that the encapsulated tilted FBG (TFBG), and surface plasmon resonance sensors have performed satisfactorily, yet, their suitability over the different operating conditions such as temperature, viscosity-change, noise, etc., remains suspicious. The at-hand biosensors fail to demodulate the response accurately once the surrounding refractive index approaches the cladding index. It requires a sufficiently large spectrum shift to demodulate and predict biosensing yield. To achieve it, in this paper, a multilayer coating-assisted gold-encapsulated TFBG biosensor is proposed. The proposed TFBG biosensor was designed with the grating angle of 10°, while gold encapsulation was done to improve resolution and sensitivity. To improve biosensing toward protein analysis and immunological assessment at first gold plating was done to improve reflectivity, while graphene oxide (GO) coating was done to enhance plasmonic attraction for biosensing. In function, GO coating served dual purposes including improved antibody and antigen absorption that helped sensitivity as well as yields sufficiently large spectra change to make detection decisions. More specifically, GO coating enables the trapping of the target molecules that eventually increases the refractive index of the coating material and hence undergoes a shift in the wavelength spectra, which is used for biosensing tasks. The higher refractive index of the coating material over the cladding index results in spectral shift and coupling wavelength shifts which helps target biosensing tasks. Simulations confirmed wavelength spectrum shift signifying biosensing tasks including protein analysis and immunological assessments for clinical decisions.

Keywords Fiber Bragg grating · Biosensor · Multilayer encapsulation · Surface plasmon resonance · Protein analysis · Immunological analysis

Introduction

The high pace rising global population and allied pressure on at-hand healthcare infrastructures including human experts have forced industry to achieve more automated and accurate diagnosis and medication solutions. Undeniably, healthcare innovations are going on across the horizon including pharmaceuticals, medicine, telemedicine, computer-aided diagnosis (CAD), etc. However, the development in hardware, especially sensor technologies has made diagnosis more time-efficient and scalable. The rising health complications have been demanding more accurate and reliable sensors to make early detection and diagnosis. This as a result can not only reduce mortality rate but can avoid further complications if diagnosed early and medicated on time. There are numerous complex healthcare practices such as cancer diagnosis, serum tests, protein analysis, etc., which demand reliable sensor solutions. Additionally, varied applications like biomechanical sensing, physiological

✉ K. Saara
saaraece@dsu.edu.in; saarakumar@gmail.com

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² Department of Electronics and Communication Engineering, Mohand College of Engineering, Hassan 578202, India

Published online: 28 March 2024



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

- Prof. Sharanabasappa Tadkal successfully completed 4 Hours of Data Analytics Using the POWER BI Workshop with END - TO - END Project Organised by TechTip24 on 03/03/2024.



- Prof. Sharanabasappa Tadkal successfully completed 4 Hours of Data Analytics Using the POWER BI Workshop with END - TO - END Project Organised by TechTip24 on 03/03/2024.



- Prof. Sharanabasappa Tadkal successfully completed the Project Management Job Simulation by CBRE hosted by Forage on March 14th, 2024.



- Prof. Sharanabasappa Tadkal successfully completed the Power BI Job Simulation by PWC Switzerland hosted by Forage on 21st March 2024.



- Prof. Sharanabasappa Tadkal successfully completed the online workshop Power BI Beginner to Pro Workshop by Pragmatic Works on 20th March 2024.



- Prof. Sharanabasappa Tadkal successfully completed the ESG Job Simulation by TCS hosted by Forage on March 14th, 2024.





Dr. Durbadal Chattaraj
Associate Professor & Chairperson
Department of CSE(CY)

- Dr. Durbadal Chattaraj has got invitation as a BOS member for the Department of Computer Science and Engineering (IOT and Cyber Security) at Sir M. Visvesvaraya Institute of Technology, Bengaluru.



Prof. Bhaskar Venugopalan
Professor of Practice
Department of CST

- Prof. Baskar Venugopalan published a patent on "A SYSTEM FOR DETECTING DISEASES IN PLANTS AND A METHOD THEREOF"
Application number: 2023/10847



SCHOOL OF ENGINEERING



STUDENT ACHIEVEMENTS

- Ms. Sohana R (ENG21CT0038), Ms. Nanditha N (ENG21CT0027), and Ms. Niharika R (ENG21CT0028) have secured Second place at the Intercontinental Innovo Quest-2024, 30 Hours Hackathon Challenge hosted by Dayananda Sagar University on the 1st-3rd of March 2024, in collaboration with Le Tourneau University, Texas, USA and have won a cash prize of 7000 rupees for their achievement.



- Ms. Harika (ENG21CT0006), Ms. Pooja (ENG21CT0029), and Ms. Vandana (ENG21CT0046) have secured the Third place at the Intercontinental Innovo Quest-2024, 30 Hours Hackathon Challenge hosted by Dayananda Sagar University on the 1st-3rd of March 2024, in collaboration with Le Tourneau University, Texas, USA and have won a cash prize of 5000 rupees for their achievement.



- Ms. Harika (ENG21CT0006), Ms. Pooja (ENG21CT0029), and Ms. Vandana (ENG21CT0046) have secured the Second in the Code-a-bit Challenge hosted by Dayananda Sagar University on 22nd of March 2024 and have won a cash prize of 1500 rupees for their achievement.



- Mr. Nishant Kumar Dubey (ENG22CT0030) has successfully completed the course "Introduction To Artificial" Intelligence on 8th March 2024.



- Mr. Ahamad Talwar (ENG23CT1001) has successfully completed the three days' workshop on "Basic Robotics Simulation" organized by Yantrove club of the Department of Artificial Intelligence & Machine Learning held on 13-15 March, 2024 in DSU, Harohalli.



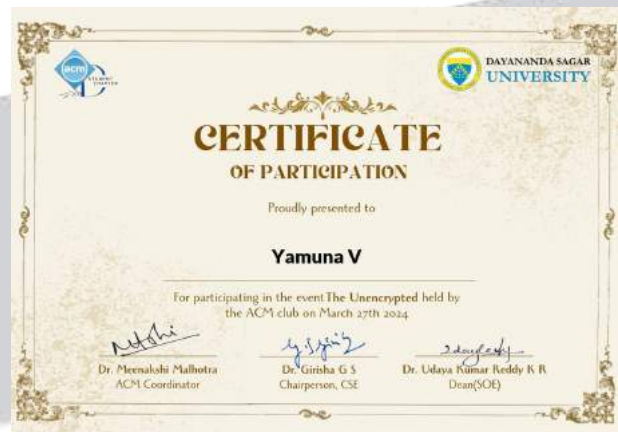
- Mr. Ahmed Isa Zaweel (ENG22CT0039) has successfully completed the three days' workshop on "Basic Robotics Simulation" organized by Yantrove club of the Department of Artificial Intelligence & Machine Learning held on 13-15 March, 2024 in DSU, Harohalli.



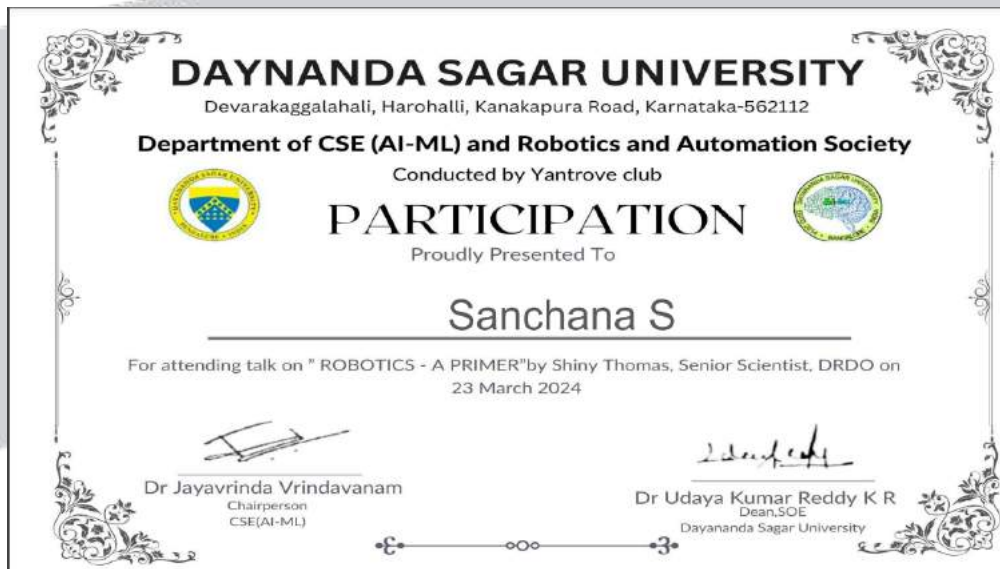
- Mr. Ahmed Isa Zaweel (ENG22CT0039) published a patent on "UNIQUE WATCH WITH A DOODLE DESIGN AND COMBINATION OF SHAPES" Application Number: 412028-001.
- Ms. Pranati Biswal (ENG22CT0016) published a patent on "BUTTERFLY RING IN PAIRS" Application Number: 412029-001.
- Mr. Rachit (ENG22CT0031) published a patent on "ACTION CAMERA INTEGRATED WITH A SOLAR CHARGER" Application Number: 412036-001.
- Ms Ashritha Arun Kumar (ENG22CT0003) has successfully completed her internship program with BITS and BYTE IT Consulting Pvt. Ltd., from 5th Feb 2024 to 23rdFeb 2024 under the guidance of Mr Anil K M.



- Ms Yamuna(ENG22CT0052), Mr Anshul Hiremath(ENG22CT0042), Mr Rakshith(ENG22CT0047), Mr Pavan Kumar(ENG22CT0015), Ms Gnana Prasoota(ENG22CT0028), Mr Siddharth Kumar(ENG22CT0049), has successfully participated in the event The Unencrypted held by the ACM club on March 27th 2024 in Dayananda Sagar University, Harohalli.



- Ms. Sanchana S(ENG22CT0017), has successfully attended talk on “ROBOTICS – A PRIMER” by Shiny Thomas Senior Scientist DRDO on March 23, 2024 in Dayananda Sagar University, Harohalli.



- Ms. Sanchana S(ENG22CT0017), has successfully participated in the 2023 “ENIGMA” conducted by Jyothi Institute of Technology on March 5, 2024.



- Eeshaan U Bhat (ENG22CS0539), Bilal Ahmed (ENG22CS0032), and Gagan Nagarjuna (ENG22CS0304), Computer Science Engineering (CSE) students from Dayananda Sagar University (DSU), achieved a remarkable feat by securing the first place in the CTF event at Techkriti'24, hosted by IIT Kanpur. Their outstanding performance not only brought glory to their university but also earned them a prestigious cash prize amounting to Rs 40,000.



- GORLE DURGA PRASAD student of CSE (Cyber Security) Semester VI successfully completed the Virtual Internship Program at BHARAT INTERN in App Development from February 10, 2024 to March 10, 2024.
- 10 Students from Semester IV, CSE (Cyber Security) Attended Workshop conducted in NIT Calicut.
- 10 Students from Semester VI, CSE (Cyber Security) Participated in IOT Workshop Organized by Computer Science and Engineering Department, DSU.

- **FOSS MEET Participation: (Free and Open-Source Software)**The FOSS Cell at NIT Calicut spearheaded the organization of the event, in collaboration with FOSS United, a renowned organization advocating for the adoption and development of Free and Open-Source Software. The combined efforts of these two entities ensured the success and effectiveness of the FOSS MEET. Students of CSE (AIML) DSU have participated in the FOSS MEET as follows:
28 students participated in NIT Calicut from 21st to 25th March 2024
125 Students participate at Bengaluru – Bellandur on 30th March 2024.



- Pavan Kumar G (ENG22DS0040), Sanjana T (ENG22DS0017), Sujeeth Kumar D S (ENG22DS0019), Dept. of CSE (DS) attended the FOSS Meet '24 at NIT Calicut held on March 23-24, 2024.



- Vaishnav from Semester VIII, CSE (Cyber Security) Successfully completed Training and Post-Training Assessment of “CYBER SECURITY FINISHING SCHOOL (CSFS) PROGRAMME” Conducted at ALVA’s institute of Engineering and Technology, Shobhavana Campus, Mijar dated 19-Feb-2024 to 22-Mar-2024.



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