



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.

INDEX

CONTENTS	PAGE NO.
WORKSHOPS / SKILL DEVELOPMENT PROGRAMS	4
WEBINARS / SEMINARS / TECHNICAL TALKS	12
EVENTS: PROFESSIONAL SOCIETIES / CLUB ACTIVITIES	14
FACULTY ACHIEVEMENTS	16
STUDENT ACHIEVEMENTS	19



SCHOOL OF ENGINEERING



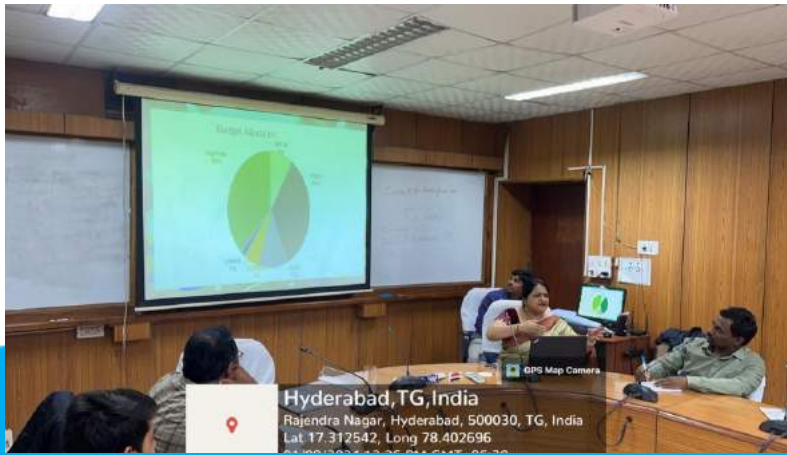
WORKSHOPS / SKILL DEVELOPMENT PROGRAMS

“TRAINING PROGRAMME ON INTEGRATION OF LOCALIZATION OF SUSTAINABLE DEVELOPMENT GOALS FOR UNNAT BHARAT ABHIYAN”

NATIONAL INSTITUTE OF RURAL DEVELOPMENT AND PANCHAYAT RAJ (NIRDPR), Hyderabad, Ministry of Rural Development and Panchayat Raj, organized the training program on the Integration of Localized Development Goals for Unnat Bharat Abhiyaan Institutions from Jan 8th to Jan 12th, 2024. Prof. Abhijith. N, Assistant Professor – Department of Mechanical Engineering, was nominated by DSU and selected by NIRDPR.

The training program included lectures and interactions with resource persons at NIRDPR, experiential sharing, and model presentations designed by participants. Additionally, there was a visit to the state-of-the-art Rural Technological Park, designed and developed by NIRDPR. The training program was very useful and provided knowledge to carry out the implementation of UBA in our adopted villages. The program was held at the NIRDPR, Hyderabad campus from Jan 8th to 12th.







“Workshop on Manuscript Writing using Open-Source Software’s”

The Department of Computer Science and Engineering (Artificial Intelligence and Machine Learning) organized a Five-Day Workshop from 16th to 20th January 2024 on 'Manuscript Writing using Open-Source Software.' The workshop benefited the 8th-semester CSE (AI&ML) students. The resource persons were from Manipal Institute of Technology, Bengaluru, Manipal Academy of Higher Education, Manipal, and AI&ML faculties. This workshop helped the students understand the steps involved in writing research articles using open-source software. Approximately 25+ students attended the workshop.

Convener:

Dr. UDAYA KUMAR REDDY K R, Dean-SoE

Dr. AMITH BHATT, Vice Chancellor, DSU

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

Dr. JAYAVRINDA VRINDAVANAM, Professor and Chairperson, 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)

Dayananda Sagar University
School of Engineering
Kudle Gate, Hosur Main Road, Bengaluru-560068
Department of Computer Science and Engineering
(Artificial Intelligence and Machine Learning)

Five Days Hands on Workshop on
Manuscript Writing using OpenSource Softwares
16-01-2023 to 20-01-2023
Mode of Conduction: Online

Organizers and Coordinators:
Dr. Vinutha N, Associate Professor, Department of CSE (AIML)
Prof. Pradeep Kumar K, Assistant Professor, Department of CSE (AIML)

Convener:
Dr. Amith Bhatt, Vice Chancellor, DSU
Dr. Udaya Kumar Reddy K R, Dean, School of Engineering
Dr. Ramesh R Galigekere, Dean/Head, School of Engineering
Dr. Jayavrinda Vrindavanam V, Chairperson, Department of CSE (AI & ML)

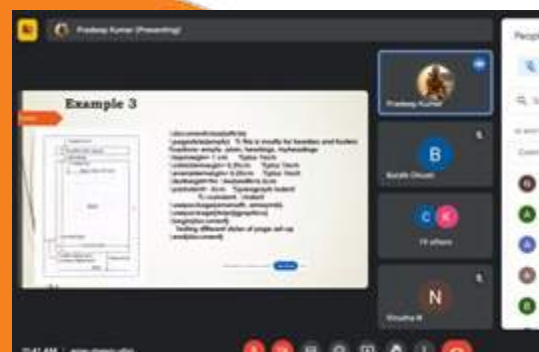
Day 1: 16-01-2024
Introduction to Research Methodology
By: Dr. Jayavrinda V, Professor and Chairperson, Department of CSE (AIML), Dayananda Sagar University

Day 2: 17-01-2024
Basic Miktex, winedit and Overleaf (Open Source softwares)
By: Prof. Pradeep Kumar K, Assistant Professor, Department of CSE (AIML), Dayananda Sagar University

Day 3: 18-01-2024
Bibliography management with BibTeX and Basic troubleshooting: Generally occurring errors.
Topic: Writing Foot note, Comments and spacing Special Characters Lists.
By: Dr. Vinutha N, Associate Professor, Department of Computer Science & Engineering, Manipal Institute of Technology

Day 4: 19-01-2024
Research Article Writing with Mathematical Equations and Image Insertion.
By: Dr. Vinutha N, Associate Professor, Department of CSE (AIML), Dayananda Sagar University.

Day 5: 20-01-2024
Single and Multi-Table Creation, Algorithm: Various document class in Latex, IEEE, Springer.
By: Dr. Ramesh R, Associate Professor, Department of Information Technology, Manipal Institute of Technology



Five-day Faculty Development Program on “IOT AUTOMATION”

Department of Computer Science and Engineering is conducting a Faculty Development Program on “IOT AUTOMATION” from 29th January 2024 to 2nd February 2024 at DSU, Harohalli Campus. The resource person of the event is Mr. Harish T., Oracle Database Administrator and IoT Developer from 4spl Technologies India Pvt. Ltd.

Program Highlights :

In-depth sessions on IoT fundamentals and architecture.

Hands-on workshops covering IoT device development, sensor integration, and data analytics.

Discussions on smart cities, and IoT security.

Case studies and real-world applications of IoT in various domains.

The faculty coordinators are Prof. Vishwas D.B. and Prof. Dharmendra D. P. of the Dept. of CSE and Prof. Pradeep Kumar from the Dept. of CSE(AIML).

 **SCHOOL OF ENGINEERING**

Devarakaggalahalli, Harohalli Kanakapura
Road, Dt, Ramanagara, Karnataka 562112



Department of Computer Science & Engineering



FIVE Days Faculty Development Program on “IOT AUTOMATION”

📅 29/01/2024 – 02/02/2024
📍 SOE – A Block : A410

Registration Form:
<https://forms.gle/vQEN2XKBCSA6ugwS8>


Coordinator & Resource Persons

1. Mr. Harish. T, 4spl technologies India pvt Ltd, Oracle Database Administrator & IoT Developer
2. Prof. Pradeep Kumar K, CSE (AIML)
3. Prof. Vishwas D B, CSE
4. Prof. Darmendra D P, CSE


Source of Contact
Prof. Darmendra D P
Assistant Professor, Dept. of CSE, SoE, DSU.
+91 98110 09409

Outcomes

- Basic fundamental concepts of Analog & Digital Circuits, Microprocessor & Microcontroller with the introduction of Embedded Systems, Understand the fundamentals of the Internet of Things and its significance.
- Demonstration of using Analog & digital Sensors & actuators along with Arduino for data Acquisition
- Learn the basics of using Tinkercad for IoT simulation.
- Explore various IoT components, sensors, actuators, and communication protocols.

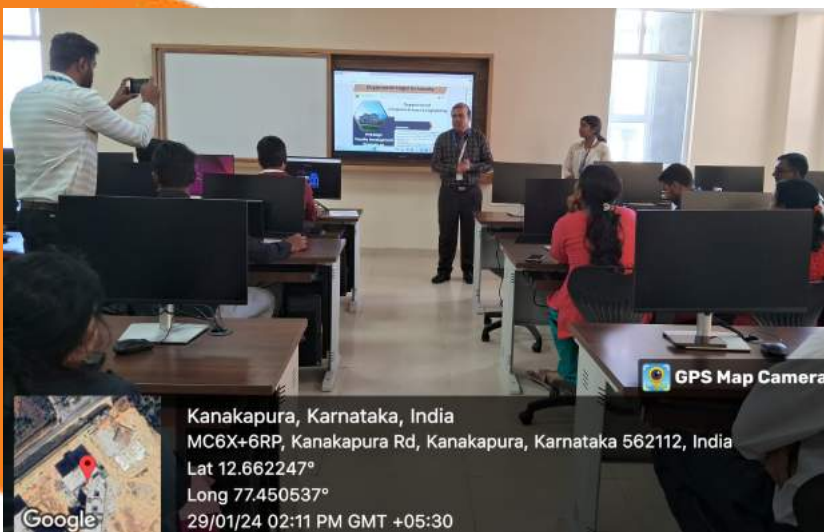
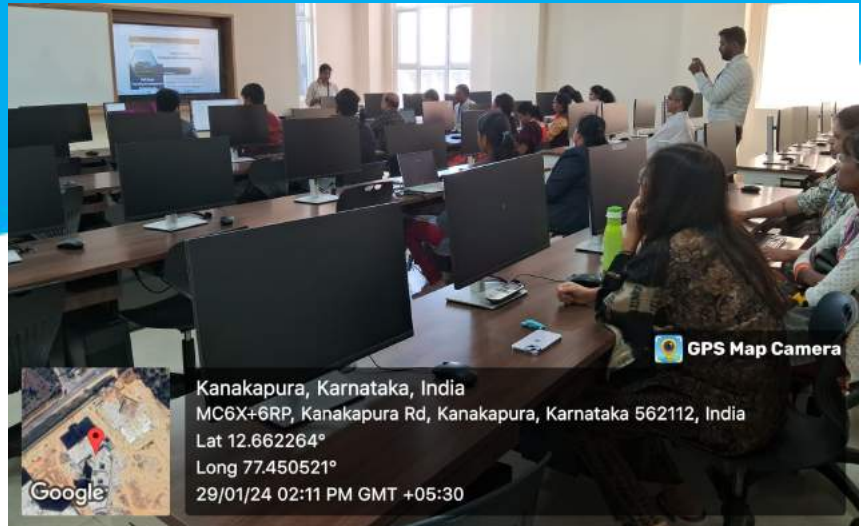
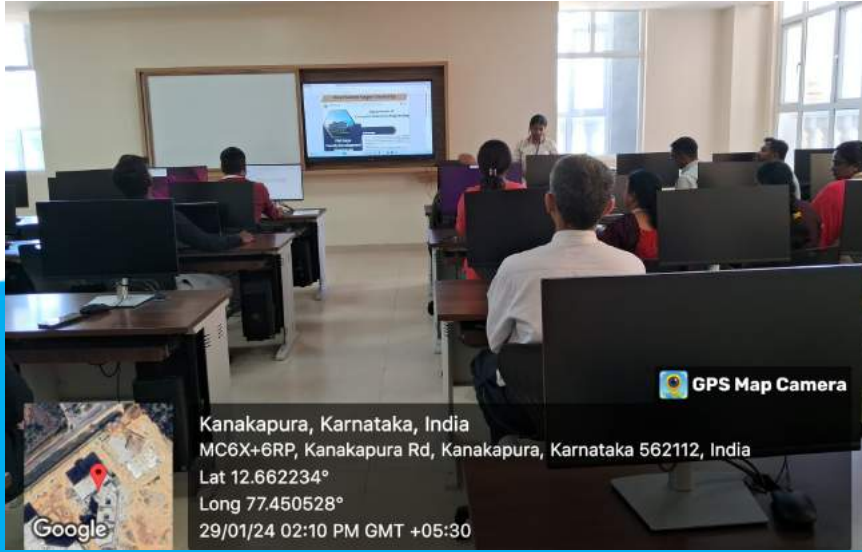
Topics

1. Introduction to IoT and Tinkercad
2. Fundamentals of Arduino & raspberry PI
3. IoT Data Acquisition:
4. Electronics workbench software designing & debugging
5. IoT Project Development
6. IoT Applications and Case Studies

Hands on Experiment

Experiments (Simulation and/or Hardware)
Projects using Tinkercad-IoT (both Simulation & Hardware using Arduino & Raspberry Pi3)

Convenor
Dr. Girisha G S, Professor & Chairperson CSE, SoE, DSU
Dr. Kousalya G, Professor & Dean R&D, CSE, SoE, DSU
Dr. Uday Kumar Reddy K R, Dean, SoE, DSU



One-day Faculty Development Program on “R Programming”

The Faculty Development Program on R Programming, skillfully guided by resource person Prof. Ravikumar C.P., stood out as a commendable initiative that drew the participation of 29 faculty members. This program delved into a thorough exploration of R programming, encompassing crucial elements such as data manipulation, statistical modeling, and visualization techniques. Prof. Ravikumar C.P.'s expertise and interactive teaching methods contributed to a captivating learning atmosphere, enabling participants to acquire practical insights and hands-on experience. The program's collaborative approach facilitated meaningful discussions and knowledge exchange, fostering a sense of camaraderie among attendees. The success of this FDP underscores the significance of continuous professional development to keep abreast of emerging trends in statistical programming and data analysis, igniting an eagerness among participants to seamlessly integrate R programming into their academic pursuits.





SCHOOL OF ENGINEERING



WEBINARS / SEMINARS / TECHNICAL TALKS

Career Guidance: “Interactions with young leaders of the future”

- Prof. Arjun K, Assistant Professor, Dept. of CSE delivered a career guidance session to Pre-University students at Sai Angel PU college, Chikkamagalur on 30th January, 2024. He delivered the session under the title “Interactions with young leaders of the future”. He provided insights about the importance of professional education, preparedness for the entrance and career opportunities on behalf of Dayananda Sagar University.





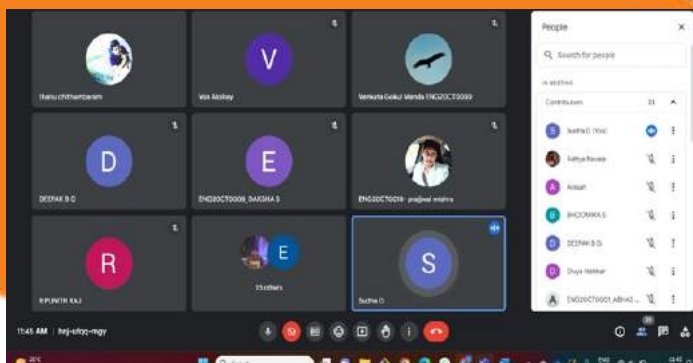
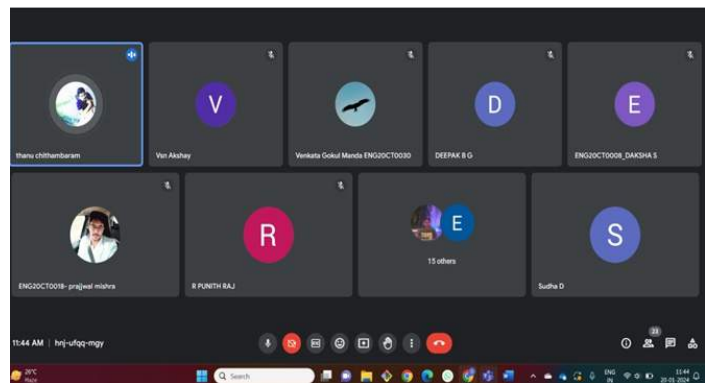
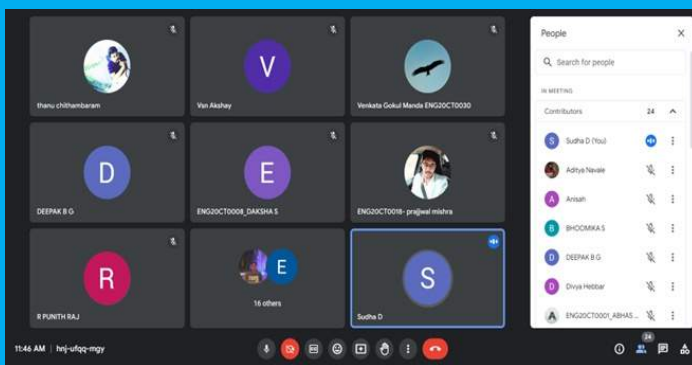
SCHOOL OF ENGINEERING



EVENTS: PROFESSIONAL SOCIETIES / CLUB ACTIVITIES

“8th Semester Orientation Session”

The Department of Computer Science & Technology conducted orientation sessions for 8th-semester students on 20th January 2024. The session started with an address by Dr. Sudha, Associate Professor, where she highlighted the department and the students' involvement in departmental activities, emphasizing the importance of the curriculum. She also explained essential instructions regarding Major Projects, Internships, and Placement activities. Dr. Sudha emphasized the importance of current technology-oriented features.





SCHOOL OF ENGINEERING



FACULTY ACHIEVEMENTS



Dr. Durbadal Chattaraj
Associate Professor
Department of CSE(CS)

- Dr. Durbadal Chattaraj of the Department of CSE (CS) has successfully completed the five-day Faculty Development Program on 'Building Advanced Data Analytics Applications with Cloud' under the Next Gen Employability Program from 08/01/24 to 12/01/24, organized by AICTE.



Prof. Ayain John
Assistant Professor
Department of CSE(AIML)

- Prof. Ayain John (Assistant Professor), Mr. Krishna Kaushik, Mr. Prathith Panda, Mr. Asrith, Mr. Patrik, have published a research article in International Journal of Innovative Technology and Exploring Engineering (IJITEE). The title of the research article is “Computer Vision Integrated Website”, Volume 13, Issue2, ISBN: 2278-3075, January 2024.



Dr. Pushpa P.V
Assistant Professor
Department of ECE

- Under the guidance of Dr. Pushpa P.V, Professor from the Department of ECE, the candidate Mr. Kalluru Hitesh (USN ENG20EC0038) has been selected for the I-HUB QTF Chanakya Fellowships.



24 January 2024

CHANAKYA FELLOWSHIP-2024

With reference to the research proposals invited from motivated Under-Graduate and Post-Graduate students in education/research institutions in India to avail funding for Chanakya Fellowships for the year 2024, the following candidates have been selected for the I-HUB QTF Chanakya Fellowships:

A. Chanakya Undergraduate Fellowships (Duration 5 months)

Sr. No	Student Name	Mentor Name	Host Institute Name
1	Aadithya G S	Dr. Sivarama Krishnan	IIT Madras
2	Advait Risbud	Prof. Kasturi Saha	IIT Bombay
3	Ansuman Sahu	Dr. Deepasikha Mishra	VIT-AP University
4	Avi Kumar Sharma	Dr. Anirban Saha	Shoolini University
5	Charumathi k	Dr. Suresh R	Sri Manakula Vinayagar Engineering College
6	Kalluru Hitesh	Prof. Pushpa P V	Dayanand Sagar University, Bengaluru
7	Mohd Sahikh Sabir	Dr. Rohit Medwal	IIT Kanpur
8	Neeraj Prabhu	Prof. Kasturi Saha	IIT Bombay
9	Parth Toshniwal	Dr. Vimal Bhatia	IIT Indore
10	Shashwat Chakraborty	Prof. Bhaskaran Muralitharan	IIT Bombay
11	Siddhant Midha	Prof. Kasturi Saha	IIT Bombay
12	Sreejan Naman	Dr. Deepasika Mishra	VIT AP
13	Tanmayee Srinivas	Prof. Ashna Bajpai	IISER Pune
14	Vedika Vikas Jakate	Dr. Kuntal Roy	IISER Bhopal
15	Vidhaan Sinha	Dr. Manish Kumar Pandey	Birla Institute of Technology, Mesra, Ranchi, Jharkhand



SCHOOL OF ENGINEERING



STUDENT ACHIEVEMENTS

- Ms. Aditi Devi Prasad has completed the course on Signal Processing Onramp, organized by MathWorks on 8th January 2024.



Course Completion Certificate

Aditi Devi Prasad

has successfully completed **100%** of the self-paced training course

MATLAB Onramp

DIRECTOR, TRAINING SERVICES

8 January 2024



Progress Report

Name: Aditi Devi Prasad
Course: MATLAB Onramp
Progress: **100%** complete (as of 8 January 2024)

Chapters

- | | |
|--|-------------------------------|
| 1. Course Overview 100% | 12. Programming 100% |
| 2. Commands 100% | 13. Final Project 100% |
| 3. MATLAB Desktop and Editor 100% | 14. Conclusion 100% |
| 4. Vectors and Matrices 100% | |
| 5. Array Indexing and Modification 100% | |
| 6. Array Calculations 100% | |
| 7. Function Calls 100% | |
| 8. Documentation 100% | |
| 9. Plots 100% | |
| 10. Data Import 100% | |
| 11. Logical Arrays 100% | |

Release: R2023b | Language: English

EDITORIAL BOARD

MANAGING EDITOR



Dr. Uday Kumar Reddy K R
Dean, SOE, DSU.

EDITOR - IN - CHIEF



Dr. M. Shahina Parveen
Professor & Chairperson, CST, DSU.

Faculty Co-Ordinator



Prof. M. Chithambarathanu
Assistant Professor
Department of CST, DSU.

Student Co-Ordinators



Pranati Biswal
Department of CST, DSU.



Sanmathi Y A
Department of CST, DSU.



Srushti S
Department of CST, DSU.



Rishav Aditya
Department of CST, DSU.



Ahmed Isa Zaweel
Department of CST, DSU.



Siddharth Kumar
Department of CST, DSU.



SCHOOL OF ENGINEERING

Kudlu Gate, Hosur Main Road, Bengaluru- 560114.