

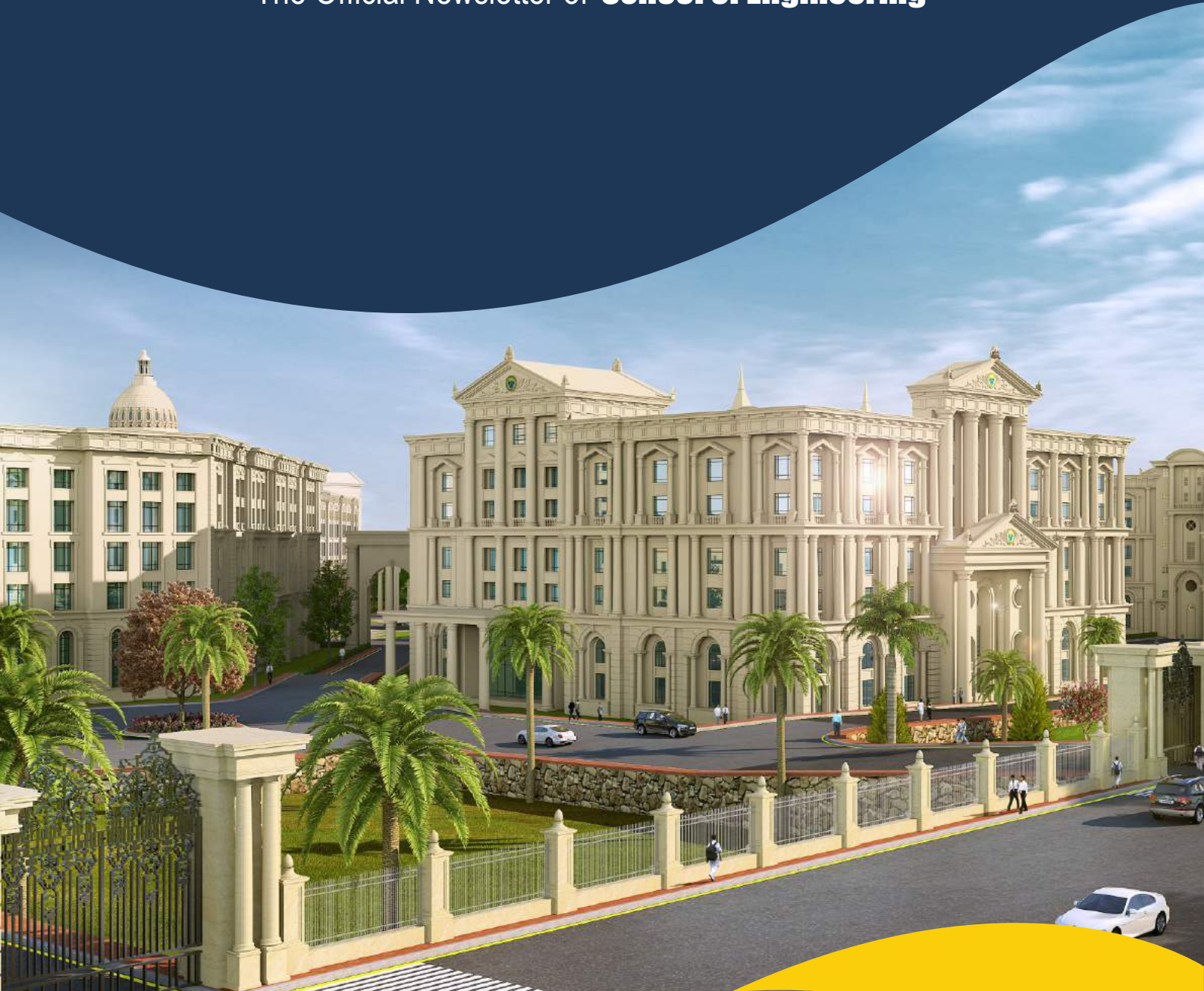


Dayananda Sagar University

Bengaluru

SOE-BULLETIN

The Official Newsletter of **School of Engineering**



SCHOOL OF ENGINEERING

Vision

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

Mission

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



Department of Computer Science & Technology

Global Investor Meet

We SoE DSU had planned three-day Global Investor Meet - Invest Karnataka 2022 at Bangalore Palace grounds Hosted by Karnataka from 2nd- 4th November 2022 at Bangalore Palace, under the theme “Build for the World”. Global Investor Meet brings together leaders with more than 75 years combined experience in the startup, healthcare and life sciences industry with a shared passion, creating disruptive products and services.

The planned objectives of the visit are:

- Learning about solving industry business problems
- Understand how the journey as an entrepreneur(s) started and Roadmap planned.
- Understand about the measures taken to maintain data security.
- Understand the whitespaces and how as an entrepreneur can target the same.
-



Brainstorming Session on Animation & Comic- CoE

The Department of Computer Science & Technology organized a Brainstorming Session on Animation & Comic- CoE on 24th November 2022, in association with the AVGC Centre of Excellence. Department has invited eminent resource persons for this session. Miss. Shiji Sunil, Centre Head, ABAI – Centre of Excellence has more than 22 years of experience in the industry. She is one of the pioneers to start training and production in the AVGC sector.

The objectives of this session were:

- 1.Awareness of AVGC Centre of Excellence digital production with technologies such as motion capture, body scan, and 2D and 3D animation.
- 2.To gain hands-on experience, production & technology tools.
- 3.Enabling skill development, start-ups, connecting MSMEs, developing the B2B market, and creating a network effect for the ecosystem.


Dr. M Shahina Parveen, Chairperson CST, and Prof. Ramandeep Kaur, Assistant Professor, CST organized this session.




Peer-to-Peer Teaching for Unplaced students

The department of Computer Science & Technology scheduled Peer to Peer sessions for the non-placed students by the Placed students. Placed students shared their strategies and experience so that others will get some tricks and plan in a better way. Each session had a discussion of strategy for 30 minutes followed by answering the queries for 15 minutes.

Brochure:



DAYANANDA SAGAR UNIVERSITY



DEPARTMENT OF COMPUTER SCIENCE & TECHNOLOGY

cordially invite you to the
Peer-to-Peer Teaching for Unplaced students

Amitash M S -Monday: 14-11-2022
Apeksha Prabhu -Wednesday: 16-11-2022
Gaurav Gupta - Friday: 21-11-2022

All CST 7th sem Unplaced students are requested to attend the session

The department of Computer Science & Technology scheduled Peer to Peer sessions for the non-placed students by the Placed students. Placed students shared their strategies and experience so that others will get some tricks and plan in a better way. Each session had a discussion of strategy for 30 minutes followed by answering the queries for 15 minutes.

List of Unplaced students:

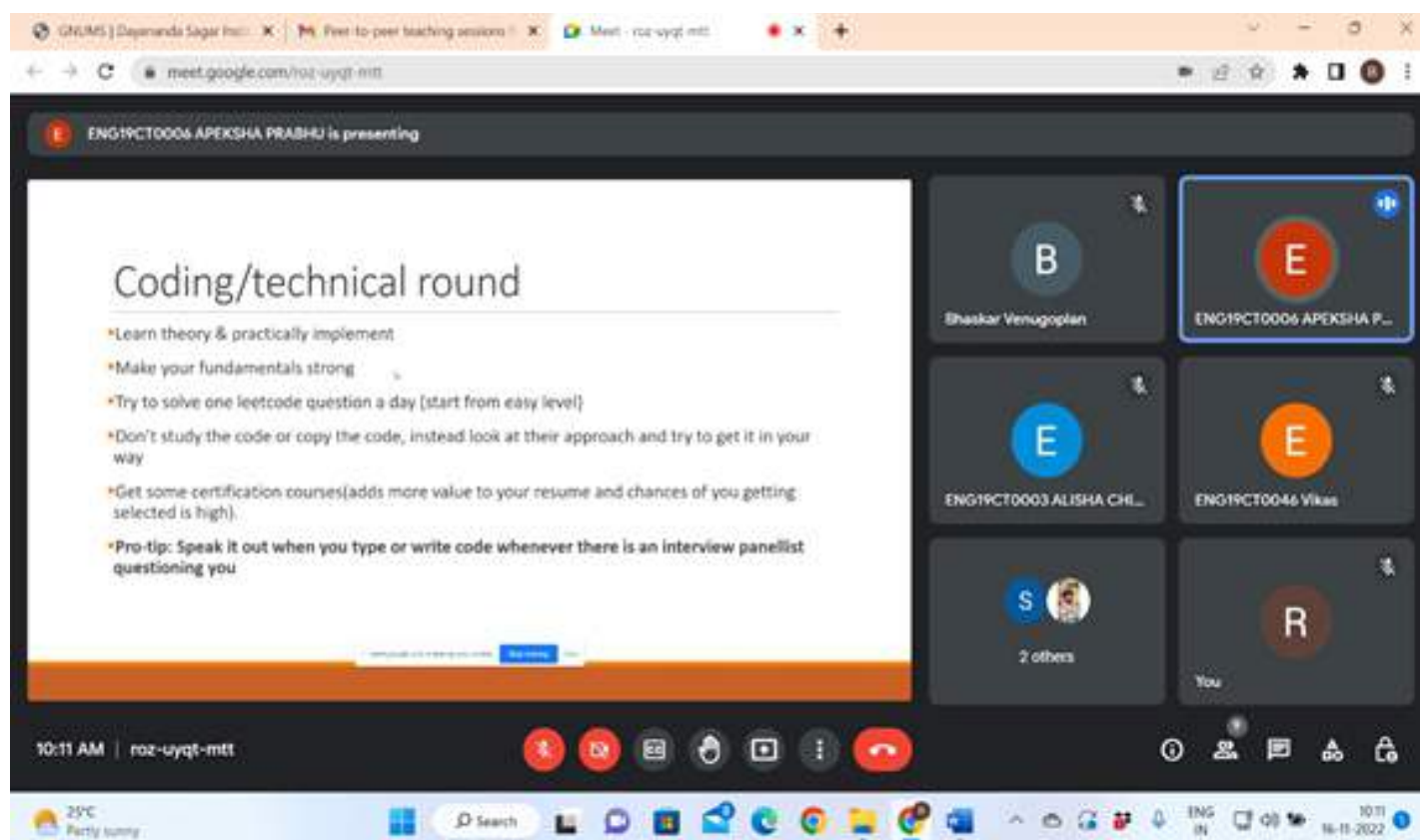
Sr. No	unplaced	
1	ENG19CT0009	Dhanush K
2	ENG19CT0014	K Durga Sai Ashish
3	ENG19CT0003	ALISHA CHINMAYEE
4	ENG19CT0019	MANOJ H
5	ENG19CT0002	Akash Pandey
6	ENG19CT0012	Hema Latha J
7	ENG19CT0046	Vikas D
8	ENG19CT0044	Vamshi R
9	ENG19CT0016	Kevin Henry
10	ENG19CT0040	Shyam Sundar Singh
11	eng19ct0015	Keshav
12	ENG18CT0035	Venkat Vilek S
13	ENG19CT0020	Moinuddin Ansari
14	ENG18CT0018	MEGHANA S
15	ENG19CT0033	Sanchita Ellur
16	ENG19CT0032	Samarth M Sharma
17	ENG19CT0039	Shreyas B U
18	ENG19CT0029	Rubeen Sakeena

Organizer
Prof. Baskar Venugopalan
Professor, CST
Prof. Ramandeep Kaur
Assistant Professor, CST

Chairperson
Dr. M Shahina Parveen
Department of Computer
Science & Technology

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

Photos taken during event:



STAFF ACHIEVEMENT



Prof. M. Chithambarathanu
Assistant Professor

Patent Publications

1. Prof. M. Chithambarathanu published a patent titled (202241061041)"Data storage of IoTdevice based on blockchain" (04.11.2022)
2. Prof. M. Chithambarathanu published a patent titled (202241065526)" A Deep Learning based system for anomaly detection in machine learning method" (25.11.2022)



Dr. M. Shahina Parveen
Chairperson & Professor

Patents Filed

1. Dr. M. Shahina Parveen and Prof. M. Chithambarathanu filed a patent titled (202241068192) "Detection and Classification of machine anomalies using Convolutional Neural Network" (27.11.2022).



Prof. Ramandeep Kaur
Assistant Professor

Paper Publications

1. Paper titled "Computing: Types, Detection and Mitigation Schemes" in International Conference on EAI ICISML 2022, Hyderabad.

STUDENT ACHIEVEMENTS

1. Ms. Sarah Catherine H & Ms. Poornashree Priyanka K filed a patent titled "Memory triggering AR/VR tool"
2. Mr. Keerthi A Reddy & Mr. Shreyas B U filed a patent titled "Logistic tracker"
3. Mr. Prajwal Mishra & Mr. Abhas Agnihotri filed a patent titled "A System and Method for Enabling MOMIX Platform"
4. Mr. Dhanush S & Ms. Bhoomika S filed a patent titled "Upskilling Platform"
5. Mr. Tharun Ganesh Naidu, Mr. Deepak Boppana Giri, Mr. Mucharla Nikhil Guptha filed a patent titled "A System and Method for Enabling Arthritis Information Platform"
6. Mr. Adnan Mohd. Syed, Ms. Shashikala M S, filed a patent titled "A system and method for enabling SAAS analysis tool for Big Data"
7. Mr. Mohit B, Mr. Vinay T S, filed a patent titled "Funding for Farmers"



Department of Computer Science & Engineering

International Training at Vietnam

Dayananda Sagar University (DSU) has partnered with VEnable Management Services Pvt Ltd company to impart education related services in the Asia Pacific region. On the request of Vien Dong College, HCMC, Vietnam, twelve days of training was delivered on Java and ReactJS to the students during November 14-26, 2022 at Vietnam by Dr. Niranjan Appaswamy, Associate Professor and Prof. Ambeshwar Kumar, Assistant Professor of Department of CSE, School of Engineering, DSU respectively. The training was well received and very well appreciated.



STUDENT ACHIEVEMENTS



1. Ms Shubhashree P, 7th Sem, CSE has won the 'Research Warriors Award Champ' for the research paper- 'Paradigm of International Relations – Netaji till Date' organized by Bhartiya Shikshan Mandel. This research paper has been published in International Organization of Scientific Research-Journal of Humanities and Social Science on 25th November 2022. She also published as co-author of her fourth book named 'Entangled' which has the storyline genre to be a satire and titled as 'The Hard Times ' describes life during covid lockdown on 7th November 2022.



2. Ms. Harshitha V, 1st semester CSE won the 2nd Prize in poster design competition organized by Green Warriors Committee, SOE on 25th November 2022.

3. Mr. Alan Joshy Thomas and Mr. Kiran Thomas V 5th Sem, CSE won the 1st and 2nd prize in debate competition organized by Green Warriors Committee, SOE on 25th November 2022.

4. Mr. Anirudh Preeth, 7th Semester, CSE completed MOOC course on "Introduction to Industry 4.0 and Industrial Internet of Things" NPTEL, November 2022.

5. Mr. Calvin Paiva, 7th Semester, CSE completed MOOC course on "Introduction to Industry 4.0 and Industrial Internet of Things" NPTEL, November 2022

6. Mr. Anup Venkat, 7th Semester, CSE completed MOOC course on "Introduction to Industry 4.0 and Industrial Internet of Things" NPTEL, November 2022

7. Ms. Shreya Sree G and Ms. Sneha G, 7th Semester, CSE, published a paper on "Evaluation of subjective answers using machine learning" in the 3rd International Conference on Issues and Challenges in Intelligent Computing Techniques (ICICT-2022), IEEE, November 2022.



FACULTY ACHIEVEMENT

1. Prof, Ambeshwar Kumar, Assistant Professor (CSE) and Dr. Rajesh T.M, Associate Professor (CSE), published paper entitled "Role of Explainable Edge AI to Resolve Real Time Problem", ISBN: 978-3-031-18291-4, vol 1072, Springer, November 2022.



Department of Computer Science & Engineering

(Artificial Intelligence and Machine Learning)

Codef AI Competition

AI Works @ DSU – the students technical club of AIML DSU conducted a Machine Learning Competition on November 22nd, 2022. The competition was open to all 3rd Year students of the University. A total of 7 teams participated in the competition



Ideathon II

DSU X TEMPETE an AI&ML Department Club coordinated by Dr. Monika Goyal Assistant Professor CSE AIML and Mr. Anuj Dwivedi Student Semester 3 CSE AIML has conducted Ideathon II targeted for the current first semester students on 25/11/2022.



STAFF ACHIEVEMENT

1. Dr. Jayavrinda Vrindavanam along with students Gopika Jayadev, Harika Gandiboina got their paper, titled ""A Comparative Analysis of Machine Learning Algorithms for Agricultural Drought Forecasting"" accepted in Third International Conference on Issues and Challenges in Intelligent computing techniques
2. Dr. Monika Goyal Reviewed Papers in All India Council for Technical Education (AICTE) Sponsored and Scopus indexed INTERNATIONAL CONFERENCE ON INTELLIGENT COMPUTING, COMMUNICATION AND INFORMATION SECURITY November 25-26, 2022, Jaipur, India.
3. Dr. Monika Goyal Reviewed Papers in IEEE "International Conference on Disruptive Technologies for Multi-Disciplinary Research & Applications" - (CENTCON-2022) hosted by 'Dayananda Sagar University, Bangalore, 22-24 December 2022.

STUDENT ACHIEVEMENTS

1. Raye Haarika got her paper, titled "Insect classification framework based on novel fusion of shallow and high-level features." Accepted in 3rd International conference of machine learning and data engineering.
2. Raye Haarika got her paper, titled "Diabetes Prediction using Machine Learning Algorithms" accepted in 3rd International conference of machine learning and data engineering.
3. Students of Semester 5 AIML secured First, Second and Third Prizes in College Level Debate Competition conducted by Green Warriors Club DSU on 25th November
4. Harshavardhan Gupta of Semester 5 AIML secured Third Prize in College Level Technical Quiz Competition conducted by Electroblitz Club DSU on 26th November
5. Rohan Jon Varghese of Semester 3 AIML secured Second Prize in Inter College Level Music Competition conducted by PES University.
6. Karthik Pai of Semester 5 AIML get selected for National Level Master Plan 2022 – ML for Agriculture conducted by Entrepreneurship and Venture Capital Wing of IIM Ahmedabad
7. Students of Semester 5 AIML secured Second and Third Prizes in College Level ML Competition (CODEFAI) conducted by AI Works @ DSU.

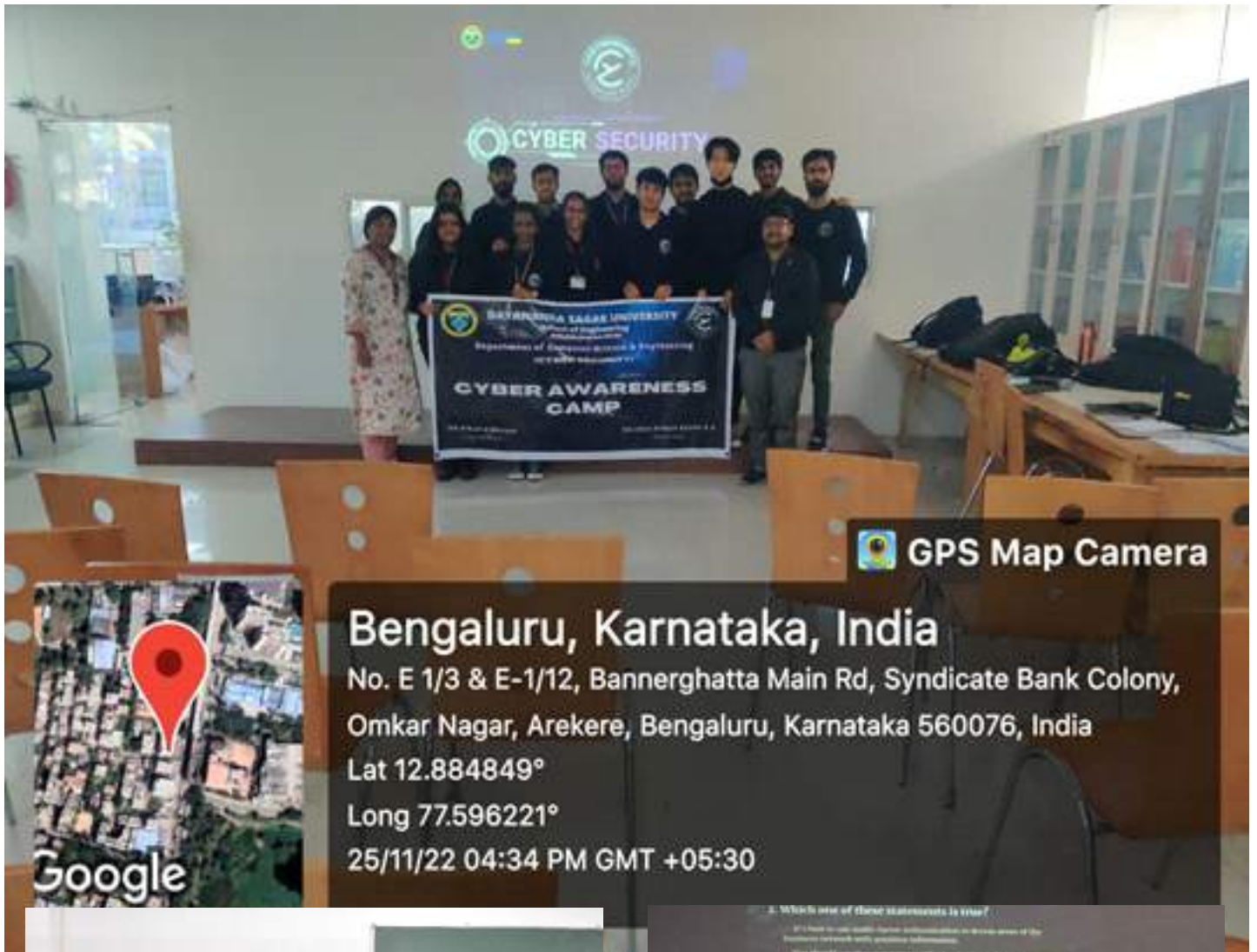




Department of
Computer Science
& Engineering
(Cyber Security)

Cyber Awareness Program

The students of Computer Science and Engineering (Cyber security) visited BASE PU College, Bannerghatta Road for Cyber Awareness Program. The department students addressed 150 PU students and 15 faculties. Also, various activities on cyber awareness were conducted. The event was very effective and the feedback received from the principal, staff and students was good. They even invited for conducting such an event exclusively for the faculty members of the college. We thank the Principal and Management of BASE PU College for the opportunity given to DSU students. We would like to thank the DSI management, VC Dr. KNB Murthy, Registrar Dr. Puttamadappa C and the Dean, SoE Dr. Uday Kumar Reddy, for permitting us to visit he PU college and conduct the awareness camp. Prof. Manjula M., Prof. Sharanabasava T coordinated the event.



BengaluruTech Summit

Students of 5th Semester Computer Science and Engineering (Cyber Security) (38 students), visited to 25th edition of Asia's Largest Tech Fest, "Bengaluru Tech Summit 2022 Tech4NexGen" on 16th November 2022, which was organized by Department of Electronics, IT, BT and S&T, Government of Karnataka at Bangalore Palace.



STAFF ACHIEVEMENT

1. Prof. Manjula M. participated in a one-week Faculty Development Programme from 17th to 23rd November 2022 at New Horizon College of Engineering, Bengaluru on "Data Science and Machine Learning – Academic and Research Perspectives".
2. Prof. Manjula M. completed the NPTEL+ online workshop "Linear Algebra for Computer Science and Machine Learning" by Prof. Saket Saurabh, IMS and Prof. Pranabendu Misra, CMS.



Department of
Computer Science
& Engineering
(Data Science)

Bangalore Tech Summit

The Department of CSE (DS) organized the Tech summit visit for the 5th Semester students on 17th November 2022, more than 40+ students visited the Tech Summit in Bangalore. In the Tech summit the students have interacted with multiple companies and entrepreneurs. The students gained insight about the different data science roles/jobs/internship. The prof. Sindhu A coordinated with students.

Takeaways: New Technologies exposure in various domains by more than 300 software Companies. Students' interaction with Techies WRT Data science job roles/Internships for the above-mentioned domains.



STAFF ACHIEVEMENT

1. Prof. Monish L and Prof. Shivamma D has attended a One-week Faculty Development Programme on “Data Science and Machine Learning” organized by New Horizon College of Engineering from 17th November 2022 - 22nd November 2022.
2. Prof. Shivamma D has gained a certification on “Data Analysis using Python” awarded by IBM on 28th November 2022.

STUDENT ACHIEVEMENTS

1. Ms. Sowmya Raj 3rd Semester have participated in the “Hackathon” organized by DSU Aerospace Department on 16th November 2022 - 17th November 2022.



Department of Electronics & Communication Engineering

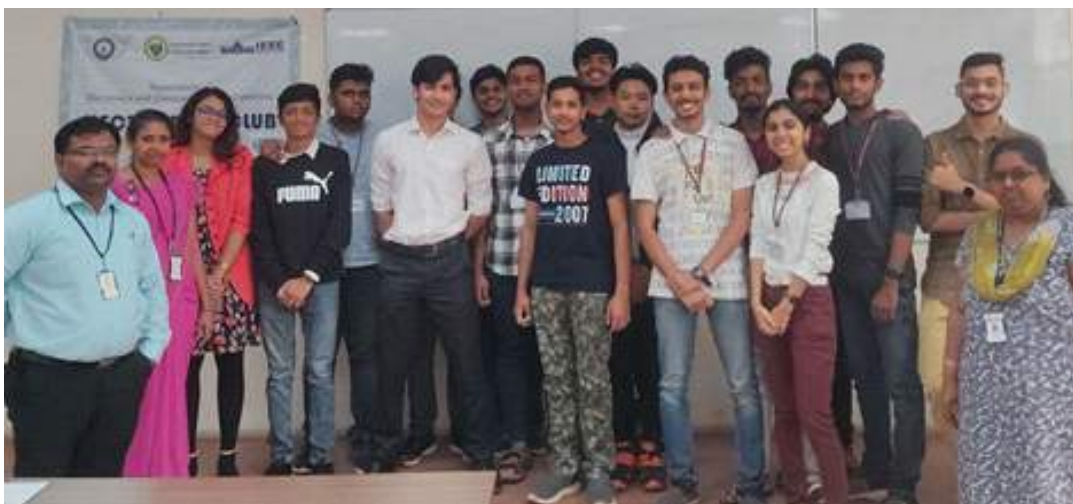
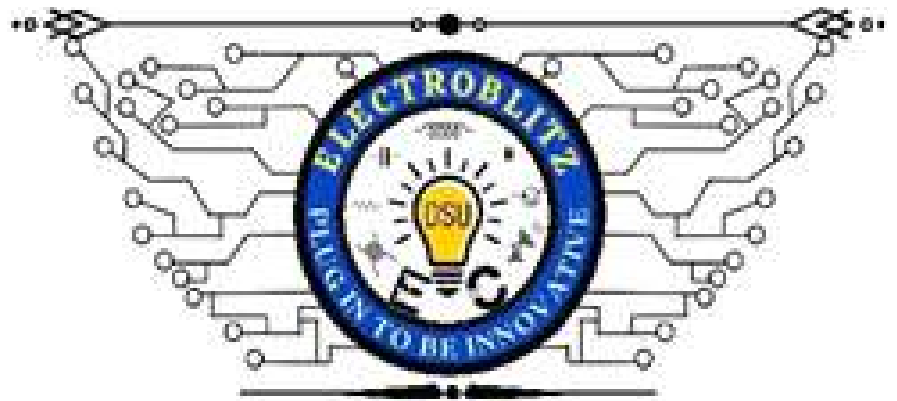
PTSP Model exhibition

A model exhibition was held for 5th semester students of ECE department. Students had built models to demonstrate application probability theory and stochastic process. The exhibition was held on 15th November. Dr. Theodore Chandra, Chairman of department of ECE addressed the students about importance of project modeling, exhibitions in future placements. The event was coordinated by Prof. Nandini Rao G.



Technical Quiz

ELECTRO BLITZ Club of the Department of Electronics and Communication Engineering of Dayananda Sagar University conducted the event technical quiz on 26th November 2022.





Department of Aerospace Engineering

Tech Talk

A special talk was held on 15/11/22 to focus the attention of students to activities related to aircraft design and manufacturing undertaken by the firm Shivam Aerospace. In this event the speaker highlighted few interesting topics on manufacture, sub-assembly and assembly of components used in aerospace and aviation. The speaker highlighted the training program offered by Shivam aerospace, involving building of aero models, aircraft model, aircraft tooling, sheet metal and composite parts. The talk also covered topics such as introduction to aircraft, basics of riveting, welding, inspection procedures in assembly of aircraft and certification aspects.

Hackathon

The Alatus Club of the Department organized a Design Hackathon powered by Autodesk during Nov 16-17, 2022. The event attracted participation of students of multidisciplinary topics from various colleges including MS Ramaiah University of Applied Sciences (MSRUAS), BMS College of Engineering (BMSCE), Dayananda Sagar College of Engineering, Nitte Meenakshi Institute of Technology (NMIT), Nittur Technical Training Foundation (NTTF), Oxford College of Engineering and Dayananda Sagar University. The best prototype was judged by Autodesk student mentors, namely Mr. Raghavendra, Mr. Justin and Prof. Ranjan from the School of Design at DSU.



Prize winning entry ONCTO
designed by students of AE-Dept



Global Investors meet

3rd Semester students attended the above event during 2-4 Nov and participated in the Business and cultural sessions. The prominent speakers across the world addressed the topics of resilience and sustainability. The students got exposed to interesting topics such as innovation and Entrepreneurship in the post pandemic world and other topics like reinventing the energy ecosystem: Future of energy generation in the world.

Children's Day Celebrations

On 14th Nov 2022, the students celebrated the children's day in a very unique way by joining with Rotaract Club of HSR Layout to offer donations to a students' orphanage near Adugodi police quarters. The team of students and Faculty catered for a day's needs of food as well as donated books and other stationery requirements. Special thanks to Mr. Ankush from Rotract HSR, students, Rutuja, Sufiya of and Faculty members. Student coordinators Shreendhi, Rohith, Sunil, Shankar, David, Ganesh, Nischal and Suchith for successful execution of the event.



Visit of students and Faculty to the Orphanage



Photograph with Dr Katja Lasch, Director, DAAD, New Delhi



Photograph of the POC Device

Nov. 17, 2022 was a historic day for DSU, as the in-house developed CO₂ absorption technology transferred by the Hon. Vice Chancellor, DSU to Mr Faisal Nayaab, CEO, M/S CLENV Pvt. Ltd., Bangalore, in the presence of dignitaries. Figure shows a photograph on the occasion of the technology transfer.

Technology transfer from DSU to M/S CLENV Pvt. Ltd., Bangalore for absorption of Carbon Dioxide directly from the atmosphere

Speaking on the occasion, the Hon. VC stated that for the first time in the history of DSU, a technology was being transferred to the Society and hoped that such activities would increase in the days to come. He also said that DSU would greatly support such initiatives and interactions with entrepreneurs.





Department of Computer Applications

Cultural Activities

The Department of Computer Application conducted Cultural Activity on Kannada Rajyotsava on 12/11/2022. The chief Guests were Shri Kiran Raj & Pannaga Bharana. Shri Kiran Raj is an Indian Film Director, Documentary Filmmaker and film Actor who works in Kannada cinema. His directorial debut in feature film titled "777 Charlie" produced by Rakshit Shetty & GS Gupta under the banner Paramvah Studio. Kiran has also penned the story and the screenplay for the movie was the first speaker of the event, and Pannaga Bharana is an Indian film director and actor who works in Kannada cinema. He is the son of famous director T. S. Nagabharana. The cultural activities conducted were Drama, Dancing, Singing the famous song of our beloved Kannada Hero Dr. Rajkumar & Dr. Puneet Rajkumar.



Bengaluru Tech Summit

Dr. Sandhya Madhuri & Pavithra K attended the Bengaluru Tech Summit 2022 on 16.11.22. Asia's most prestigious and sought-after technology summit organized by IT ministry Karnataka. The platform will be celebrating its 25th year and is all set to offer another enriching confluence of pioneering companies, bright minds, and cutting-edge technologies in IT, Biotechnology, Deep tech, Start-ups and other future-defining spaces. This invigorating crucible is all set to benefit the various stakeholders associated with the respective domains - industry leaders, technocrats, young innovators, investors, R&D professionals, academia, and policymakers. Organized by the Department of Electronics, IT, Bt and S&T, Government of Karnataka and Co-Hosted by STPI, Bengaluru Technology Summit brings together the most established businesses across technologies, the most talented individuals, researchers, consultants, academia, professionals and other stakeholders providing them with a unique opportunity to interact and engage for mutual benefit. Of course, as always BTS 2022 promises to be bigger, bolder, and better.



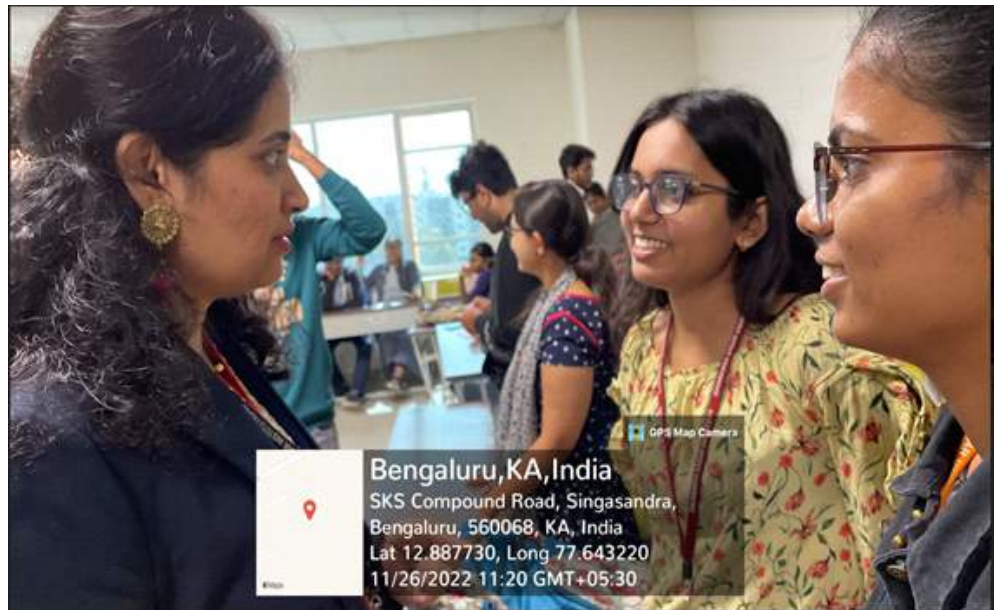
Communication Club

The Communication club was conducted in the Department of Computer Applications by Dr. Sandhya Madhuri on Nov 26, 2022.

The events conducted were:

1. Who am I?
2. Blindfold Stroll.
3. Know your partner.

The participants were BCA 3rd & 1st Semester Students.





Department of Physics

Staff Achievements

1. Prof. PC Deshmukh delivered Talk on Noble Prize 2022, Invited Lecture for the Indian Association of Physics Teachers, on “The second quantum revolution”. The same talk is delivered at different locations including Dayananda Sagar University School of Pharmaceutical Sciences, Central University of Himachal Pradesh, etc.

[https://www.youtube.com/watch?v=H1vjO_kKejA&list=PL2IXS7LFVI82LQCu3OalA26DG3awjH4kF]

2. Dr. Yogesh Kalegowda Published a research article entitled, “Studies on the effect of crystalline Fe₂O₃ on OER performance of amorphous NiOOH electrodeposited on stainless steel substrate” in Chemical Letters, Chemical Papers volume 76, pages 7195–7203 (2022) [<https://doi.org/10.1007/s11696-022-02382-y>]

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