

Dayananda Sagar University
School of Engineering,
Department of Computer Science and Engineering,
Events – 2021-2022

“Cyber Crimes – An Overview”

Seminar

As a part of Cyber Jagrookta (Awareness) Diwas

Department of Computer Science and Engineering started ‘Cyber Jagrookta Diwas’ to raise awareness about cybercrime and how to deal with it. As a part of it, the department conducted a seminar on “Cyber Crimes – An Overview” on 5th January 2022. The organizers for the event were Dr. Jayavrinda Vrindavanam, Professor & Chairperson, Department of AI & ML and Dr. Bharanidharan N, Assistant Professor, CSE, DSU and Mr. Sri Hari as student coordinator. The webinar was open to all the faculties, Research scholars and students of various institutions.

The Inauguration of the event was started with the invocation song by Dr. Renuka Devi MN, Asst. Professor, CSE Dept., DSU. and welcome speech is given by Ms. Soumya Raj, First year B.Tech.-CSE student. Then Dr. Jayavrinda Vrindavanam, Professor & Chairperson, Department of AI & ML, DSU, introduced the speaker to the audience.

The speaker in the seminar covered the following things: Definition of cybercrime and its impact; kind of cybercrimes such as Women / Child related crime, Online financial frauds, Online job fraud, Debit / Credit card fraud, etc.; the ways and methodologies to report the cybercrime; Laws and acts related cybercrime and cyber security; investigation process carried out in case of cybercrimes; preventive measures and significance of cyber security; motivated the students to concentrate on cyber security by explaining its scope.

Resource Person: Prof. SITARAM YAJI, PROFESSOR/ECE NMIT, YELAHANKA



- Prof Sitaram Yaji got his B.Tech degree in ECE from NITK Surathkal in 1982

- Got his M.E degree from IISc in 1985
- He has worked in industry for over 25 years - DRDO, ISRO, ITI Ltd, Wipro Ltd, Cisco Systems (San Jose USA), and Cisco India
- After quitting Cisco India, he became freelance corporate trainer and did technical training for corporate engineers all over India for about six years
- Areas of interest include telecom, IP networking, VoIP/Unified Communications, Cellular core networks and embedded systems
- He has published Several papers in IEEE conferences and journals. And has a joint US patent
- Since May 2015 he has been working as Prof in ECE dept of NMIT Yelahanka.

Brochure:

DAYANANDA SAGAR UNIVERSITY
BANGALORE

DEPARTMENT OF
COMPUTER SCIENCE &
ENGINEERING

SEMINAR ON
"CYBER CRIMES - AN OVERVIEW"
AS A PART OF
"CYBER JAAGROOKTA (AWARENESS) DIWAS"

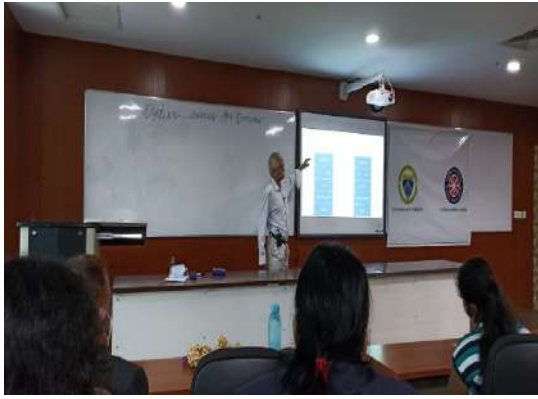
DATE : 05/01/2022
TIME : 10:00 AM TO 11:00 AM
VENUE : GALLERY HALL, A BLOCK

SPEAKER
Prof. SITARAM YAJI
PROFESSOR/ECE
NMIT YELAHANKA

COORDINATORS
Dr. Jayavinda Vrindavanam, Prof/CSE
Dr. Bharanidharan N, AP/CSE

Photos taken during the event:





Value Added Course On Demystifying AI and ML

Department of Computer Science Engineering conducted online value-added course on “Demystifying AI and ML” during 24th-29th January 2022 for 3rd year Computer Science Engineering Students organized by Dr.Jayavrinda Vrindavanam, Professor and Chairperson, Department of CSE(AI&ML) and Dr. Meenakshi Malhotra, Associate Professor , Department of CSE.

The workshop consisted of several sessions of a multitude of topics supported by practical sessions, handled by faculty experts from Computer Science Engineering each have shared their expertise on different areas of Artificial Intelligence and Machine Learning. The workshop was concluded with a session by Industry expert Mr. Sankar Dasiga, CTO Wellness space Limited, an AI and ML based company, Jayanagar, Bengaluru.

The day 1 of the programme started with an inaugural speech by Dr. Srinivas A, Dean School of Engineering and talk on the ‘Introduction to workshop’ by Dr. Girisha G S, Chairperson, Department of Computer science Engineering. Resource Persons: Dr. Jayavrinda Vrindavanam; Dr. Basavaraj N Hiremath; Dr. Meenakshi Malhotra and Prof. Arjun Krishnamurthy. The morning session began with the lecture sessions on various introductory topics such as ‘Introduction to AI and ML, ML types and systems, Evolution of AI and ML and Python Libraries for AI and ML’. The objective of these 4 four sessions conducted on the day-1 was to make the participants understand the basics of Artificial intelligent and machine learning, the types of Machine learning and Evolution of AI and ML. Python Libraries for AI and ML was also conducted to make the students understand Python Libraries for AI

and ML to be used in subsequent days along with hands-on training to all the participants. The participation was overwhelming with 74 participants attended during the day-1 of the workshop.

The day 2 of the programme had four sessions focused on topics associated with mathematical aspects laying the foundation to Artificial Intelligence and Machine Learning. Mathematics plays an important role as it builds the foundation for programming for these two streams. And in this course, we've covered exactly that. We designed a complete course to help students to master the mathematical foundation required for writing programs and algorithms for AI and ML. The course had been designed in collaboration with industry experts to help break down the difficult mathematical concepts known into easier to understand concepts. The morning session was addressed by Dr. Debanjali Bhattacharya, who gave a brief introductory and hands-on session pertaining to various important concepts focusing on, "Mathematics for Machine Learning". Topics like Orthogonal, orthonormal set of vectors, linear dependence, linear independence, solving systems of linear equations and so on. Google-colab was used for hands-on sessions. The subsequent session was addressed by Dr. Pramod Kumar Naik, who gave a brief introductory and hands-on session "Statistics for AI and ML". Python libraries like Numpy, Pandas, Seaborn, Matplotlib and Scikit Learn were explored. Google colab was used for a hands-on Session. Last session of the day covered theory and a hands-on session on linear regression.

The objective of the workshop was to provide in-depth knowledge of the analysis design and demo of ML algorithms and applications. On Day 3, Dr. Jayavrinda started with the process flow of the ML project and explained in detail about different Machine learning algorithms. Next session was taken over by Dr. Rajesh. Sir started explaining about pattern recognition algorithms and applications in forensic crime detection. Sir explained 2 case studies with detailed analysis. Next session was handled by Dr. Renukadevi M.N, her talk started with an explanation of Why human action recognition, challenges, and applications. Later we moved to How is action related to behavior? And elucidating some examples on single and multiple action detection on video frames. Next, she moved on to detail analysis and single and multiple action detection in videos.

1. Converting videos to frames
2. Explanation of HOG feature descriptor step wise (all 8 steps –mathematical analysis)
3. Demo of multiple and single action in videos in mat lab

In the next part she progressed on to 2nd case study discussing multiple action detection in 5 Hollywood movie dataset and real-time dataset. Started with conversation on Machine learning and SVM classifier with an example in detail and showcasing the demo of multiple action detection in videos in mat lab. Afternoon session started by Dr.Jayita Saha. Madam explained about pre-processing and feature extraction with some examples. Madam also discussed Machine learning applications and sensor data.

Day 4 handled by Dr. Savitha Hiremath; Dr. Tina Babu; Dr. Jayavrinda Vrindavanam; Dr. Meenakshi Malhotra they included implementation of Machine Learning Models and various methods of ML Model assessment that prepare students to execute projects. Hands-on sessions were conducted on both topics. In the afternoon session, students were briefed on "Recent trends and Advances in AI and ML". The last session of the day was on AI and computational Cognitive systems that enlighten students on creating new ways to solve problems that are better than Humans.

The day 5 constituted 3 sessions including the invited guest lecture from Prof.Sankar Dasiga, Professor at NMIT and the CTO at Wellnesys, on "Use of ML in Industry". Prof. Sankar had provided participants with the detailed description and differentiation between AI and ML, that is

difficult to find in common textbooks along with real world examples on how AI can be used to solve problems. In the afternoon session, Prof. Arjun, unravelled some unique featured implementations of AI in the real world. He introduced several AI tools explaining how they are built, concluding with project implementations of AI on medical Data. The Last session was handled by Dr. Kiran who enlightened the students about "Machine learning for Cyber Security and Cloud computing".

The intended outcome of the workshop was to make the Students well-versed with

- Understand the mathematics and statistics for ML
- Understand Python Libraries for AI and ML
- Understand the machine Learning Models
- Demonstrate the Working of Machine Learning Techniques.
- Understand the Recent trends and Advances in AI and ML
- Explain the applications of Machine learning in different functional areas like Cyber Security, Cloud computing and cognitive computing

Resource persons:

- Mr.Sankar Dasiga, CTO, Wellness space
- Dr. Jayavrinda Vrindavanam, Professor and Chairperson, Department of CSE(AI&ML), DSU
- Dr. Basavaraj N Hiremath, Professor, CSE, DSU
- Dr. Rajesh T M, Associate Professor, CSE, DSU
- Dr. Meenakshi Malhotra, Associate Professor, CSE, DSU
- Dr. Pramod Kumar Naik, Associate Professor, CSE, DSU
- Dr. Savitha Hiremath, Associate Professor, CSE, DSU
- Dr.Kiran B Malagi, Associate Professor, CSE, DSU
- Dr. Debanjali Bhattacharya, Assistant Professor, CSE, DSU
- Prof. Arjun Krishnamurthy, Assistant Professor, CSE, DSU
- Dr. Renuka Devi, Assistant Professor, CSE, DSU
- Dr. Jayita Saha, Assistant Professor, CSE, DSU
- Dr. Tina Babu, Assistant Professor, CSE, DSU.

Boucher:

Dayananda Sagar University
School of Engineering, Innovation Campus, Campus III,
Near Kudlu gate, Howar Main Road, Bengaluru-69

Department of Computer Science & Engineering
presents
Demystifying AI & ML
VALUE ADDED COURSE ON ARTIFICIAL INTELLIGENCE
AND MACHINE LEARNING

DATE : 24th - 29th January, 2022 DURATION : 32 Hours
MODE OF CONDUCTION : Online PRE-REQUISITES : Python PL

OBJECTIVES :
The workshop envisages to achieve the following objectives :-

- Graduate the AI and ML Framework
- Understand the mathematics and statistics for ML
- Understand Python Libraries for AI and ML
- Understand the machine Learning Models
- Demonstrate the Working of Machine Learning Techniques.
- Understand the Recent trends and Advances in AI and ML
- Explain the applications of Machine Learning in different functional areas like Cyber Security, Cloud computing and cognitive computing

OFFERED TO : 6TH SEMESTER CSE STUDENTS
Number of participants limited to 90 (First come first serve)

COURSE OUTCOMES :

- Understand Recent trends and prospects of Machine Learning Applications relevant to the Industry
- Understand Machine Learning and its current applications.
- Combine the knowledge of engineering, mathematics and with Machine Learning fundamentals to solve complex ML problems.
- Design and develop solutions for simple and complex Machine Learning applications
- Analysis and interpretation of data and synthesis of information
- Understand the relevance of a multidisciplinary approach in future that would have societal and environmental impact.

SYLLABUS :

Module 1 Introduction to AI and ML, ML types and systems, Evolution of AI and ML, Python Libraries for Machine Learning (8 hours)

Module 2 Mathematics for AI and ML, Statistics for AI and ML, Linear Regression (8 hours)

Module 3 Design and process flow of ML project, pattern recognition and ML Applications, video data processing and ML Applications (8 hours)

Module 4 ML models (Supervised learning algorithms) and Applications, ML Model Assessment, Recent trends and Advances in AI and ML (6 hours)

Module 5 Machine Learning in Industry, Machine Learning for Cyber Security and Cloud computing, ML and computational Cognitive Systems (5 hours)

RESOURCE PERSONS - FACULTY OF CSE DEPARTMENT

Dr. Girisha GS	Dr. Jayavinda Vrindavanam	Dr. Moonesh Mahotra
Dr. Ravivaraj/Hiremath	Dr. Kiran Malagi	Dr. Rajesh TM
Dr. Reshika Devi	Dr. Debasmita Bhattacharya	Dr. Prasad Naik
Dr. Jagha Saha	Dr. Savitha Hiremath	Dr. Tina Sahu
Mr. Sarvar Dasga		Prof. Arjun Krishnamurthy

REGISTRATION LINK : <https://forms.gle/rxjF4tHkKk0JZ4A>

REGISTER ASAP !!

Contact :
Dr. Jayavinda Vrindavanam (9636602677, jayavinda_cse@dsu.edu.in)

“Cyber Hygiene – Best Practices”

Seminar

As a part of Cyber Jagrookta (Awareness) Diwas

Department of Computer Science and Engineering conducted webinar on “Cyber Hygiene – Best Practices” as a part of Cyber Jagrookta (Awareness) Diwas on 2nd February 2022. The organizers for the event were Dr. Mouleeswaran SK, Associate Professor, Prof. Kalpana B N, Assistant Professor, Prof. Ankita Singhai, Assistant Professor, Department of CSE, DSU and Ms. Krishna Priya Lokanatha and Ms. Nupur R Naik, Student of 4th Sem as student coordinator. The webinar was open to all the faculties, Research scholars and students of various institutions.

The participants of this event include Dr. Girisha GS, Professor & Chairperson of CSE, faculty members and 130 B.Tech. students from various streams. The mode of conduction was zoom meeting. The session started with the welcome speech by Prof. Ankita Singhai, Asst. Professor, CSE. Then the Chairman of CSE Dr. Girisha GS addressed the gathering about Cyber Jagrookta Diwas. Dr. Mouleeswaran SK, Associate Professor, CSE, introduced the speaker to the audience. Then the speaker Mr. Dhruva Santosh delivered his speech for one hour and the Question & Answer (Q&A) session was held for around 20 minutes. Finally, the vote of thanks was delivered by Prof. Kalpana B N, Asst. Professor, CSE.

Speaker covered the following things: Definition and introduction of cyber hygiene; Rules of cyber hygiene; How can we check whether our E-mail and Mobile number is compromised or not by using the website link haveibeenpwned.com? Also how can we check whether the strength of our password is good by using haveibeenpwned.com/passwords? And passwordmonster.com. Benefits and best practices of cyber hygiene; Some of the vulnerabilities present in games and web browsers were also discussed and shown using CVE, CVSS, Exploit db, etc.

Students of all years from different departments participated in the webinar

Resource Person: Mr. Dhruva Santosh



- He is a young budding Cyber Security Professional
- He is the student Alumni and got his B.Tech degree in CSE from DSU, Bangalore in 2020
- Currently pursuing his Masters in Applied Cybersecurity (Queen’s University Belfast), UK
- He is a Certified Ethical Hacker (CEHv11) and CompTIA Certified Security+ and PenTest+ and Fortinet Certified NSE 1,2
- He is the founder of Cyber Club of DSU
- His research interests include Vulnerability management, post quantum cryptography, cyber forensic, and penetration testing and published paper in the same area

Boucher:



DAYANANDA SAGAR UNIVERSITY
DEPARTMENT OF CSE
PRESENTS WEBINAR ON: CYBER HYGIENE - BEST PRACTICES
AS A PART OF
CYBER JAGROOKTA
(AWARENESS) DIWAS

DATE : 02.02.2022
DAY : WEDNESDAY
TIME : 2:00PM-3:00PM

SPEAKER
DHRUVA SANTOSH
Alumni of DSU
MSc. Applied Cybersecurity, Queen's
University,
Belfast, United Kingdom
Certified Ethical Hacker (CEHv11) , Sec+
PenTest+ , NPTA

Faculty Co-ordinators:
Dr. Mouleswaran SK
Prof. Ankita Singhal
Prof. Kalpana BN

Student Co-ordinators:
Krishna Priya Lokanatha
Nupur R Naik

“Data Analytics”

Seminar As a part of Anveshana Club

The first activity under the Anveshana club of CSE department was conducted on 26th February 2022 on “Data Analytics”. Event organized by Dr. Savitha Hiremath, Dr. Jayita Saha, Dr. Debanjali

Bhattacharya, Prof. Veena M, Prof. Shwetha G S, Prof. Nandini K, Prof. Pooja Goud, Prof. Shradha Naik.

Resource Person of the day was Mrs. Kavya Niranjana Radhya, Senior Technical Program Manager, Lifion by ADP, New York City. 70 students registered and attended the webinar. The agenda of the Resource person for the webinar was about conveying what Data Analytics is, where it is used, skills and tools required, and types of Data Analytics and Frame work with an example. She was successful in delivering the contents to students. The session was very interactive and students asked many questions to clarify their doubts. Many inputs regarding how to make “Data analytics” a career was discussed.

Resource Person: Mrs. Kavya Niranjana Radhya, Senior Technical Program Manager, Lifion by ADP, New York City



Additional Information

Boucher:

Dayananda Sagar University
School of Engineering
Kudlu Gate, Hosur Main Road, Bengaluru – 560068
Department of Computer Science and Engineering



Anveshana
Explore.. Discover.. Connect Technology.



Topic: Data Analytics
on
26th February 2022

Resource person
Kavya Niranjana Radhya
[Senior Technical Program Manager Lifion by ADP,
New York City.]

Objectives

- To explore current Trends in Industry.
- To nurture students’ talents in cognitive and IT skills.
- Familiarization with Research Methodology and documentation.

Registration Link: [Click here](#)
Session Link: [9:00 AM - 10:00 AM]
<https://meet.google.com/kno-hfef-xhe>

Faculty Coordinator

Dr. Savitha Hiremath
Dr. Jayita Saha
Dr. Debanjali Bhattacharya
Prof. Veena M
Prof. Shwetha G S
Prof. Nandini K
Prof. Pooja Goud
Prof. Shradha Naik

Outcomes

- Able to face the challenges in life outside the campus and global workforce.
- To understand the current research trend
- Discovering new research ideas
- Connecting with the existing and prevailing technology

Student Coordinator

Shubha Shree P	ENG19CS0305
Raqeab N	ENG20CS0282
Reethika A	ENG20CS0288
Prathama N	ENG20CS0265
Raparla Dhanunjay	ENG20CS0281
Ruby Seher	ENG20CS0297
Yashna karkera	ENG20DS0048
Hari Pradha P	ENG20AM0027
Ivan Reni Varghese	ENG20AM0031
R Shushank	ENG20CT0020
Vaibhav S	ENG20CT0029
Punith Raj	ENG20CT0019
Nandini hazaarika	ENG20DS0048
Vilohith	ENG20DS0048
Srishti Ranjan	ENG18CS0284

Two days Workshop on “Introduction to Network Simulation (NS3)”

Department conducted a two days workshop on “Introduction to Network Simulation (NS3)” on 5th-6th March 2022. Workshop was conducted by Dr. Renuka Devi, Prof. Krishna Sowjanya K, Prof. Pooja Goud, Assistant Professor, CSE, DSU. Network Simulation is a technique whereby a program performs the behaviour of a real world. This is achieved by calculating the interaction between the different network entities. The entities are the routers, switches, nodes, access points and links. Students learned from the hands on session of NS3. The speaker of the workshop was Dr. Nagaraj M. Lutimath, Associate Professor in Information Science and Engineering, East Point College of Engineering and Technology.

On day1, speaker’s gave introduction to Network Simulation, which is A discrete event network simulator and Open-source tool with modular design then explained its simulation along with components and structure of C++ in NS3 as well as provides a set of simulation models implemented as C++ objects. Then they explained the outputs of the simulation such as NetAnim and PCAP Trace files in NS3, NetAnim is used as a visualization tool in NS3, NS3 uses “pcap” and “tr” trace files as the main trace files, Pcap is packet capture. Recompiling of NS3 easier with waf. In the afternoon session, the speaker explained Network simulation using NetAnim that includes Application of Wireshark for simulation output, Tracing and logging the NS3 program for debugging, Execution of Client Server Program or simple programs Execution. Wireshark is a free and open-source packet analyzer. It is used for network troubleshooting, analysis, software and communications protocol development and education.

On day2, Speaker started NS3 simulation – TCP sockets with a congestion window. They explained ping, CDMA – Code Division Multiple Access, LTE – Long Term Evolution The Evolved Packet System (EPS).

Additional Information

Boucher:

DAYANANDA SAGAR UNIVERSITY

Dayananda Sagar Institutions founded in the 60s by one such visionary, Late Sri R Dayananda Sagar committed to take knowledge to the people, transforms today's students into responsible citizens and professional leaders of tomorrow. Dayananda Sagar University created by an Act of the Karnataka State in 2014, built on this adorable legacy and inspired by its own milestones, meeting the needs of quality higher education in this part of the world. Inspired by Innovators - Research, Innovation and Incubation (spread over 25,000 sqft of industry quality labs) form the core of DSU. So, it isn't surprising that DSU has taken the next logical step: Laying the foundation to transform the entrepreneurial dream of every young Indian and global citizen into a reality. Enabling this transformation is the active support of industry leaders, industry bodies and a dedicated 4 lakh square feet moderna ready-to-move-in infrastructure!

ABOUT THE DEPARTMENT

The Computer Science & Engineering department creates the most favorable technology ecosystem for quality academic and research-oriented undergraduate education in computing sciences and train the students for a globalized technological world by leading them across dual-career paths to serve the society. The mission of department is to advance the frontiers of technology start-ups and offer students a dual-career path for fostering collaborative and multi-disciplinary practices.

The Computer Science and Engineering department actively involves in research & development. It has good collaborations with several industries, academic institutes and research & development

Dayananda Sagar University Bengaluru

organizations. The mission of the department is to develop student's breadth of knowledge across the subject areas of computer science, including their ability to apply the defining processes of computer science theory, abstraction, design, and implementation to solve problems in the discipline and across industry domains. It offers under graduate, post graduate and doctoral programs. The department maintains a strong relationship with industry partners. Many students are benefitting with industry linked internship.

Convener : Dr. A. Srinivas, Dean SoE, DSU
Dr. Girisha G S, Chairman CSE, DSU

Organizer : Dr. RenukaDevi M N, Prof. Krishna Sowjanya K, Prof. Pooja

For Any Queries Email To: Dr. RenukaDevi M N (renukadevi.m-cse@dsu.edu.in), Prof. Krishna Sowjanya K (ksowjanya-cse@dsu.edu.in), Prof. Pooja (poojagoud-cse@dsu.edu.in)

Dayananda Sagar University
School of Engineering
Department of Computer Science & Engineering
Kudlu Gate, Hosur Main Road, Bengaluru - 560068

Two-Days Online Workshop
On
"Introduction to Network Simulation (NS3)"
5th March 2022- 6th March-2022
Organized by
Department of Computer Science & Engineering
Dayananda Sagar University

Internal Hackathon for Smart India Hackathon 2022

Department of CSE conducted an Internal Hackathon on 26/3/2022. A total of 7 teams participated. The event was conducted from 9 AM to 5 PM. The program started by a welcome address by the Dean of Research-Prof. Banga. Later on, the chairperson, Dr. Gireesha addressed the students. Vice Chancellor Dr. K.N.Balasubramanya Murthy spoke to the students. There were three Jury members.

1. Dr. Basavaraj Hiremath, Professor, Department of CSE, DSU
2. Dr. GopalSharma Joshi, Professor, Department of CSE, DSU
3. Dr. Bhaskar Venugopal, Professor, Department of CT, DSU

In total there are four Hardware and three Software Projects. Students were evaluated by experts who have both Industry and academic knowledge. Experts gave their suggestions to the teams. The event ended by a thanking note from the university SPOC, Dr. Sindhu Menon.

The details of teams are given below

Sl No	Name of Student	Department	Title
1	Venkatesh C L	ME	Design a drone using Autodesk Fusion 360 Software for Surveillance
	Mohan S	ME	
	Karthik S Sastry	ME	
	Siddharth Seetharaman	ME	
	Kunal Singh Viridi	ME	
	Abhiruchi Bharambe	CSE	
2	Syed Abdul Mallik	ME	Median collision prevention system
	Sheetal Dinesh	ME	
	Manohar.R	ME	
	Dhananjay Dabeer	ME	
	Dhanush Koundinya M	ME	
	Vinay V Hanchate	ME	
3	Schenit Paul	ME	Solutions to detect air quality inside the cabin and improve it.
	Zafeerah Sameen Subhani	ECE	
	N.Pruthvinag	ME	
	V.U.Umme Azra	CSE	
	M.V.Lavanya	ECE	
	R Parvathy Suresh	ECE	
4	Karthik K Pai	CSE(AIML)	Smart clothing for coal mine workers
	Ashwin J	ECE	
	N U Harsha Tejas	CSE(AIML)	
	Ivan Reni Varghese	CSE(AIML)	
	Hari Pradha	CSE(AIML)	
	Raye Haarika	CSE(AIML)	
5	Anis Hesrur	ME	Solutions to detect air quality inside the cabin and improve it.
	Faisal Pasha	ME	
	Faizan Ahmed	ME	
	Abhishek.B.Hiremath	ME	
	Mohith. K.R	ME	
	Shashikala	CT	
6	Harshal Goyal	CSE	AI based Platform for Students

	G.V. Sairam	CSE	
	Belsare Yash Rahul	CSE	
	Shefali Gupta	CSE	
	Palash Sharma	CSE	
	Abhijith J.K	CSE	
7	Suhas Marpalle	CSE	AI Enabled Trashbot to drive and Harvest Floating Trash
	Siva Pavan Naveen G	CSE	
	Karthik S	ME	
	D varun	ME	
	Shishira S	CSE	
	Aashray P	CSE	

Additional Information

Event Photos:





“Workshop on React JS”

The department of Computer Science and Engineering conducted 3days workshop on “React JS” in association with Full Stack Development Student Club from 7th to 9th May 2022. The workshop was organized for CSE 4th semester students by Prof. Gousia Thahniyath, Prof. Veena M, Dr. Kiran B. Malagi, Prof. Chhaya S. Dule, Dr. Sindhu P. Menon, Prof. Debasmita Mishra, Prof. Gaurav Kumar. Mr. Rizwan Ahmed Shivalli, Senior software Engineer/React Native Developer, Health Plix Technologies, Private Limited was the resource person. The workshop was organised to enhance the knowledge of students in React JS which is a javascript library for developing interactive user interface. The topics covered in the workshop were React overview ,Components ,Events ,JSX along with hands on session. Students become familiar with React JS. Real time application development through React JS with hands on sessions. The session was really interesting and informative, and students enjoyed the Hands-on session.

Photos:





Brochure:

Dayananda Sagar University
Kudlu Gate, Hosur Road, Bengaluru-560068

Department Of Computer Science & Engineering
A Three-day Workshop on
REACTJS
In Association with Full Stack Development Club
on
7th, 8th and 9th May 2022

Head of Program:
Dr. Pawan Arvind Shrivastava
Senior Software Engineer,
Haptix Labs, Techmatics Private Limited,
Bengaluru.

Speakers:
Dr. A. Srinivas
Dean, SOE, DSU
Dr. M. K. Sangeetha
Dean, Department DSU
Dr. Srinivas G. C.
Chairman-CSE, DSU

Co-Convenors:
Ms. Divya Thattaiyan
Assistant Professor, DSU
Ms. Anuradha
Assistant Professor, DSU
Dr. Arjun S. Shetty
Associate Professor, DSU
Ms. Uthayakrishnan
Associate Professor, DSU
Dr. Chinmay P. Kulkarni
Professor, DSU
Ms. Geetha Shetty
Assistant Professor, DSU
Mr. Gaurav Kumar
Assistant Professor, DSU

Objectives:

- Familiarization with React JS
- Real time application development through ReactJS
- Opportunities and challenges of being a full stack developer
- Hands on ReactJS

“Art Exhibition from Fine Arts Club”

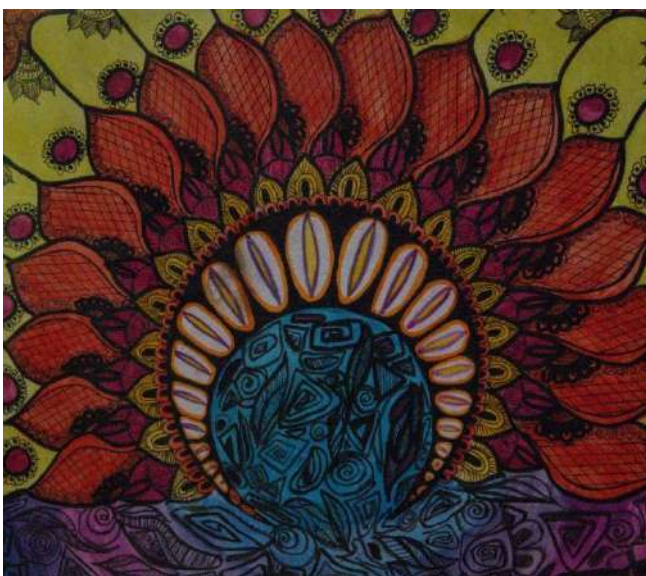
Fine Art club of SOE, DSU organized Art Exhibition as a part of Liberal Studies course for Computer Science and Engineering 4th semester students on 14th May 2022. The event was coordinated by Prof. Sharvari J N, Assistant Professor, CSE. The participants were enthusiastic and presented their painting, drawings, portraits, photography.

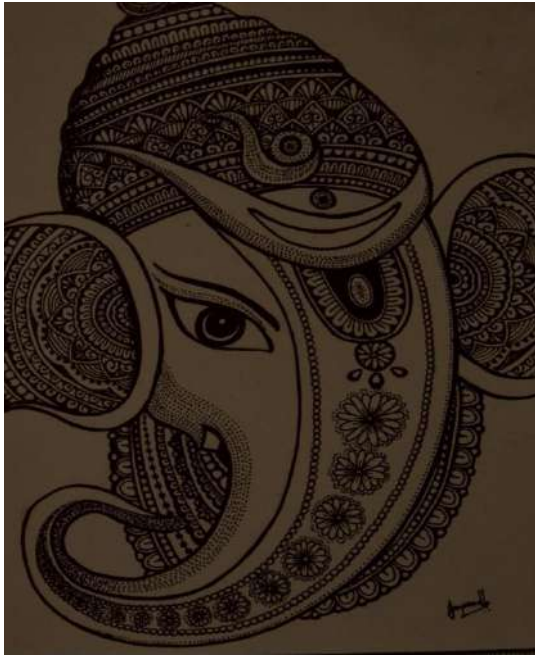
Event Photos:







Participants Art Photos:





Brochure:


 **FINE ARTS CLUB** 

PRESENTS
ART EXHIBITION

ALL ART ENTHUSIASTS ARE REQUESTED TO PARTICIPATE.
PAINTINGS, DRAWINGS, PORTRAITS,
PHOTOGRAPHY

REGISTRATION Link: [HTTPS://FORMS.GLE/QQKB3ETE7UHLFSPN7](https://forms.gle/QQKB3ETE7UHLFSPN7)

DATE: 14/05/2022 FOR MORE DETAILS,
VENUE: A BLOCK 4TH FLOOR CONTACT: PROF. SHARVARI
ROOM NO: T306 3RD FLOOR B BLOCK



“Linux Customization and Porting”

Department of Computer Science & Engineering conducted a Workshop on " Linux Customization and Porting " on 31st May, 2022. The main objective of the event was to Develop, Analyse, Review and Contribute to efficient, secure and high quality design, implementation, testing and operations of computing system.

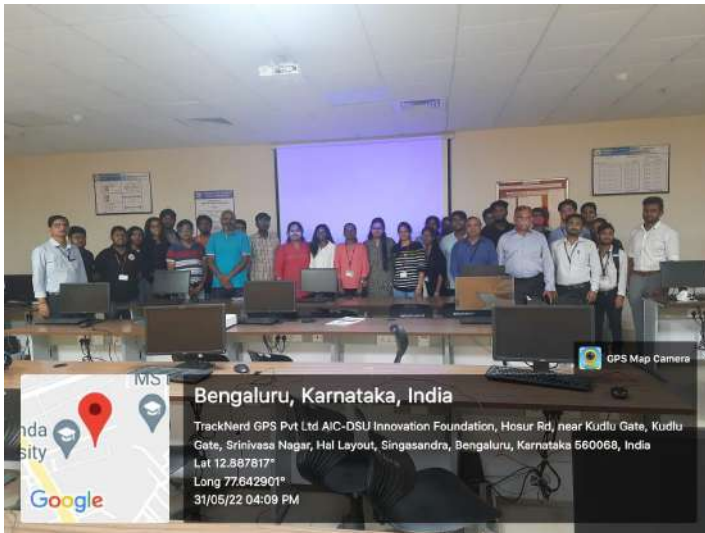
Mr. Sukesh Kumar, Senior Manager Software Development and Mr. Ashutosh Tripathi, Principal Member of Technical Staff in Oracle India Pvt Ltd., Bengaluru, were the resource persons of the event and organizes are Prof. Naveen Kulkarni, Prof. Ambeshwar Kumar., Prof. Monish L, Assistant Professor, Computer Science and Engineering.

The speaker covered the LSP/BSP Overview, Components of LSP/BSP, OS/KERNEL porting, Xloader/uboot/grub, Kernel & modules compilation, Creating configuration file from scratch, Initrd vs initramfs, Creating initramfs, 10. Generating grub2.cfg, Creating kernel modules and Loading/unloading kernel modules. Total 35 students participated in the workshop and the students have performed satisfactorily, feedback was taken from the students and it is found to be satisfactory.

Additional Information

Photos:





Brochure:



Dayananda Sagar University
Department of Computer Science and Engineering
 Kudla Gate, Hosur Main Road, Bengaluru - 560068

Workshop on
“Linux Customization and Porting”

About DSU:

Dayananda Sagar Institutions founded in the 6th century, late Sri Dayananda Sagar committed to transform today's students into responsible citizens and professional leaders of tomorrow. Dayananda Sagar University created by an Act of the Karnataka State in 2014, built on this venerable legacy and inspired by its own milestones, is committed to meet the needs of quality higher education in this part of the world. Inspired by Innovation and Incubation (spread over 25,000 sqft of industry quality land) form the core of DSU. So it isn't surprising that DSU has taken the next logical step. Laying the foundation to transform the entrepreneurial dream of every young Indian and global citizen into a reality. Building this transformation is the active support of industry leaders, industry bodies, and a dedicated & fully square feet modern ready-to-use infrastructure.

Objectives of Workshop:

By the end of the workshop students will be able to:

- Explain the LSP/ESP Components.
- Port OS/KERNEL and Application.
- Differentiate between Architecture and board porting.
- Create configuration file from scratch.
- Create kernel modules.
- Load/unload kernel modules.

Department of Computer Science and Engineering, DSU, focuses on imparting quality education along with research and development activities. This is achieved through the Pedagogical initiatives in T & L process like project/problem based learning, lecture series, the-lab, Sarka, Hands-on workshops and internships. As part of these activities, department of CSE is organizing a workshop titled "Linux Customization and Porting" for advanced learners of prefinal year students, in order to provide some insights about OS customization and porting. Once the participants get to know the basics of OS/KERNEL porting they may orient themselves towards creating configuration file from scratch, kernel modules, etc.

Coordinators:

Dr. A. Srinivas Dean CSE, DSU	Dr. M. K. Banga Dean R&D, DSU
Dr. Girisha G.S. Chairman, CSE, DSU	

Organizers:

Prof. Navene Kulkarni
Associate Professor, Cyber Security Program,
Dept. of Computer Science and Engineering

Prof. Ambashwar Kumar
Associate Professor,
Dept. of Computer Science and Engineering

Prof. Monish L
Associate Professor, Data Science Program,
Dept. of Computer Science and Engineering

31st May, 2022
 9:00 AM - 4:00 PM

Ashutosh Tripathi
Principal Member of
Technical Staff
(Oracle India Pvt Ltd.,
Bengaluru, Karnataka, India)



SUKESH KUMAR
Senior Manager Software
Development
(Oracle India Pvt Ltd.,
Bengaluru, Karnataka, India)



“Intellectual Property Rights and its Protection in India”

Department of Computer Science and Engineering conducted webinar on “Intellectual Property Rights and its Protection in India” in association with Government of India, Ministry of Commerce and Industry collaboration with Dayananda Sagar University on 30th June 2022. Coordinators of the webinar was Dr. Pramod Naik, Associate Professor, Prof. Kavya B, Prof. Meghana G and Prof. Roshni M, Assistant Professor, CSE. The speaker of the event was Ms. Lavanya Madduri, Examiner of Patents and designs NIPAM-Officer, Patent Office, Chennai.

Speaker spoke on “Patents, Copyrights and Trademarks: Procedural and Legal Aspects”, started with an introduction to Intellectual Property Laws and spanned across the different disciplines related to IPR, the importance of legislation in the field of science and arts community, how innovation comes with different disciplines with collaboration research, marketing innovations etc. Speaker explained how to file a patent in India itself with respect to life science, biotechnology, computer science and physical sciences and also in the context of collaboration research. She briefed on IPR laws in different countries like USA, Germany, UK etc. At last speaker discussed different aspects of intellectual properties like industrial design, geographical indication, trade secret, protection of farmers’ rights and researchers’ rights. She concluded the talk by explaining the rationale of protection and the nature of IPR. She emphasized that IPR has to be renewed from time to time for keeping them in force except in case of copyright and trade secrets



Brochure:

“ProjectExpo 2022”

Project exhibition, ProjectExpo-2k22, organized for CSE 8th Semester students by the Department of Computer Science and Engineering. The main objectives of the project exhibition were to provide a platform for the final year students to showcase their work and get valuable comments from industry experts, provide a platform for the upcoming final year students to see the different domains in which projects can be taken up, motivate and inspire all the junior batches to take up projects in different domains. Event was organized by Dr. Meenakshi Malhotra, Prof Chhaya, Dr. Bharanidharan, Prof. Gousia, and Prof. Vaidehi. There were two External Jury Members Dr. Y V S Lakshmi, Head C-BUDDHI Group Leader IPR & KMG, Bangalore and Mr. G N V Raviteja, Senior Associate Product Manager, Affinidi. The workshop was highly appreciated by the jury members and student community. There were 17 teams have taken up excellent projects and presented them very well. Jury members appreciate the hardwork and innovation of the teams.

Mr. Anirudha Narayan Shastri, Ms. Ananya Snjeev Sawant, Mr. Allwyn AK, Mr. Elwin Thomas, Ms. Jyothsna T did project title “Dental Assistance Tool” won the first prize, Mr. Ashish Sreenivas, Mr. Burhan Baig, Mr. Amey S Benegal, Ms. Aishwarya, Mr. Ajay Venkatesh did project title “Byte Pay Blockchain” was the first runner up and Mr. Rishab Rk Shandilya, Md Ehsaan shaikh, Mr. Mohsin Omar Ahmed, Mr. Namanpreet Singh, Mr. Tushar Ranjan Jha project title “Finding Missing Person using Face Detection” was the second runner up of the exhibition.

Photos:



Winners (photos):



1st Prize



2nd Prize



3rd Prize

Brochure:

DAYANANDA SAGAR UNIVERSITY
School of Engineering
Department of Computer Science and Engineering
presents

Project Expo-2k22

For 8th Semester CS&E Students Project

Experts Panel
Dr. Y V S Lakshmi
Head C-BUDDHI Group Leader IPR & KMG,
Bangalore
Mr. G N V Raviteja
Senior Associate Product Manager, Affinidi,
Bangalore

DATE
03/06/2022
9:30 am to 4:30 pm

VENUE
Gallery Hall 2,
A Block, DSU

Conveners
Dr. A Srinivas
Professor & Dean-SOE
Dr. M K Banga
Professor & Dean- R& D
Dr. Girisha G S
Professor & Chairperson, CSE

Coordinators
Dr. Meenakshi Malhotra
Associate Professor, CSE
Dr. Bharanidharan N
Asst. Professor, CSE
Prof. Vaideshi Verma
Asst. Professor, CSE
Prof. Chhaya S Dule
Asst. Professor, CSE
Prof. Gousia
Asst. Professor, CSE

“Graph QL”

Department of Computer Science and Engineering in association with Full Stack Development Club-CSE organized webinar on Graph QL from 4th June to 6th June 2022. The main objectives of the workshop were Basic GraphQL syntax, and how it maps to similar SQL syntax, How GraphQL mutations save time by combining reads and writes into a single transaction, How to handle add, update, and delete operations in GraphQL. Resource person of the event was Mr. Vishak Amin, Software Engineer, geekyants, Bangalore. Webinar was organized by Dr. Kiran B. Malagi, Prof. Gousia Thahniyath, Prof. Veena M, Prof. Chhaya S Dule, Dr. Sindhu P Menon, Prof. Gaurav Kumar, Prof. Debasmita Mishra.

Brochure:

The brochure is for a three-day workshop on GraphQL, organized by the Department of Computer Science & Engineering at Dayananda Sagar University. The event is in association with the Full Stack Development Club and will take place from June 4th to 6th, 2022. The brochure features the university's logo, the department name, and the workshop title. It also lists the organizers and co-organizers, along with a list of objectives for the workshop. The objectives include understanding GraphQL syntax, how mutations save time, and how to handle CRUD operations. The brochure is designed with a green and blue color scheme and a background image of a person's face.

Dayananda Sagar University
Kudlu Gate, Hosur Road, Bengaluru-560068

Department Of Computer Science & Engineering

A Three day Workshop on
GraphQL
in association with Full Stack Development Club
from 04th to 06th June 2022

Mr. Vishak Amin
Software Engineer @peeyants (Full-Stack Web Developer | ReactJS | JavaScript | GraphQL | AWS)

Organizers:
Dr. A. Srinivas
Dean, SoE, DSU
Dr. M. K. Banga
Dean-Research, DSU
Dr. Shilpa S. S.
Chairman-CSE, DSU

Co-Organizers:
Dr. Kiran B. Melegi
Associate Professor, DSU
Ms. Gouriya Thambiyath
Assistant Professor, DSU
Ms. Veena M
Assistant Professor, DSU
Ms. Chhaya S. Dule
Assistant Professor, DSU
Dr. Sindhu P. Menon
Professor, DSU
Ms. Debasmita Mishra
Assistant Professor, DSU
Mr. Gaurav Kumar
Assistant Professor, DSU

Objectives:

- How GraphQL syntax, and how it maps to similar SQL syntax
- How GraphQL mutations save time by combining reads and writes into a single transaction
- How to handle edit, update, and delete operations in GraphQL

“Blockchain and its Applications”

Department of Computer Science and Engineering conducted 6 days FDP on Blockchain and its Applications from 30th May to 4th June 2022. Event was organized by Prof. Nandini K, Dr. Pramod Naik, Prof. Shwetha G.S, and Prof. Trupthi Hegde, faculties of CSE. Resource Persons of the FDP explained different concept of Blockchain. Dr. Mani, IBM explain the Blockchain for Enterprise. Dr. A. Martin, Assistant Professor, School of Mathematics and Computer Sciences, Central University of Tamil Nadu, Thiruvavur explained Blockchain for Big Data. Prof. Aparajita Ojha, Professor, Computer Science and Engineering, PDPM IIT explained different Blockchain elements. Prof.CVSN Reddy, Associate Professor, DSU, Bangalore gave Introduction to Blockchain Technology. Emmanuel Shubhakar Pilli, Associate Professor, CSE, Malaviya National Institute of Technology, Jaipur, explain Security and Privacy of Blockchain Technology. Mr. Nihar Ranjan Pradhan, Research Associate with the Department of Computer Science Engineering, National Institute of Technology, Meghalaya gave introduction to Hyper ledger fabric, Besu and caliper, benchmarking toll. More than 170 faculties participated in the FDP. The workshop was highly appreciated by the participants.

Additional Information

Brochure:

Dayananda Sagar University
School of Engineering
Department of Computer Science & Engineering

6 Days FDP
on
Blockchain Technology and its Applications
Virtual Mode

30th May - 4th June 2022
(Registration on or before 28th May 2022)

Organized by Department of Computer Science & Engineering

Speaker from reputed institutions with good working experience in the field of Blockchain Technology will deliver their talk.

Members from Industry, Government Organizations, Faculty, Researchers and PG/UG students can Attend.

VALUE ADDED COURSE

on

Introduction to IoT and Arduino Programming

Department of Computer Science & Engineering conducted a Value-added course for 1st year students on "Introduction to IoT and Arduino Programming" on 18th, 19th, 25th and 26th June, 2022. The main objective of the event was to understand IoT and its applications, the functions of sensors and its components, to familiarize Arduino IDE, programming language, Arduino board, its basic components, and Hands-on session to develop smart application.

The workshop was conducted and delivered by the faculties of the CSE department as a resource person. Total of 60 students participated in the course.

Prof Savita Vijay, Assistant Professor gave the Introduction to IoT, its working, application and IoT Networking Principles. Prof Shwetha G S, Assistant Professor demonstrates IoT boards, Arduino board pin description, an Introduction to sensors, and different types of sensors. Prof.CVSN Reddy, Associate Professor explains IDE Overview, Web and Network basics, Blynk and Google Assistant, Inbuilt LED Test - Arduni, Node MCU, External LED Blink - A and N, Temp and humidity sensor - A (Agriculture), Heart Pulse sensor - A(Healthcare), Internet-based LED Control - Node MCU(Web), Home Automation. Prof. Vaidehi Verma, Assistant Professor demonstrate some IoT projects. Prof. Kavya B, Prof. Trupti, Prof. Manjula, Assistant Professor, Assist the students in developing IoT Projects. At the end of the course, students enthusiastically developed IoT projects and had a good experience.

Photos:



Brochure:

Dayananda Sagar University
Department of Computer Science and Engineering
Cordially invites you to the
Value added course
on
"Introduction to IOT and Arduino Programming"
18th-19th June 2022 & 25th-26th June 2022

Syllabus

- Module 1: Introduction to Networking and IoT
- Module 2: Architecture of Arduino, Sensors, Specifications, interfacing sensors to Arduino
- Module 3: Introduction to Arduino IDE and Programming with Arduino & NodeMCU
- Module 4: Wi-Fi configuration for real-time operations using NodeMCU, ESP8266, Blynk App For cloud applications and Web Interface, Google Assistant
- Module 5: Projects

Course Outcomes

- Understanding the IOT and its applications
- Understand the function of electronic sensors and components
- To familiarize Arduino as IDE, programming language & platform.
- To provide knowledge of Arduino boards and basic components
- Develop skills to design and implement various smart system application.
- To provide knowledge of different Smart System applications.

OFFERED TO
2nd Semester B.Tech Students
MODE OF DELIVERY
Online
SESSIONS
32 hours

Resource Persons – Faculty of CSE Department
Dr. Girisha G.S, Prof. C.V.S.N.Reddy, Prof. Nandhi V.K., Prof. Nandhi Venka, Prof. Shivetha G.S, Prof. Kavita, Prof. Tejani, Prof. Manjula

“Gender Justice and Feminist Jurisprudence in India”

Department of Computer Science & Engineering conducted a webinar on "Gender Justice and Feminist Jurisprudence in India" on 22nd June, 2022. The event was organized by Dr. Jayita Saha, Dr. Renukadevi M N, and Prof. Veena, Assistant Professor, CSE. Dr. Shahista Inamdar, Principal (I/c) and Assistant Professor Navjeevan Law College Nashik, Maharashtra was the speaker of the event. The main objective of the webinar is to provide the concept of Gender Justice, the Evolution of Feminist Jurisprudence, Constitutional Mandate For Women, various statutory laws, and Judicial pronouncements in the protection of women. Special emphasis on Illustrations and Case laws. Talk also focused on the strong need required today as never before to make Indian women aware of their rights. They have to launch a relentless battle for their emancipation. And it's not their responsibility alone. Workers, youth and students in particular and the Indian people in general have to fight and win this battle. Speaker concluded the talk by explaining the following points The fight is not for women's status but for human worth. The claim is not to end the inequality of women but to restore universal justice. The bid is not for loaves and fishes for the forsaken gender justice gender but for cosmic harmony which never comes till women come

Brochure:



Dayananda Sagar University
Department of Computer Science and Engineering
Cordially invites you to the
Webinar
on

"Gender Justice and Feminist Jurisprudence in India"

Objectives of the Webinar:

- Concept of Gender Justice
- Evolution of Feminist Jurisprudence
- Constitutional Mandate For Women

Resource Person:

**Dr. Shahista Inamdar**
Principal (IC) and Assistant Professor
Navjeevan Law College Nashik, Maharashtra.

Date & Time
22
2:30 PM - 4:00 PM

Click here to join Meeting
meet.google.com/szc-ucup-erx

Register Here: <https://surveyspari.com/form/52aa5af24581ba1490cbafef>
(registration is free)

Organizers:
Dr. Renukadevi M.N, Assistant Professor, Dept. of CSE;
Dr. Jayita Saha, Assistant Professor, Dept. of CSE;
Prof. Veena, Assistant Professor, Dept. of CSE.

For Any Queries Email To:
Dr. Renukadevi M.N
renukadevi.m-n-cse@dsu.edu.in
Dr. Jayita Saha
jayita-cse@dsu.edu.in

Industrial Visit

1. Department of Computer Science and Engineering, Cyber security 4th semester Students visited URSC Indian Space Research Organisation (ISRO), Bangalore on 8th June 2022. It was motivational and a great learning for the students.



2. Department of Computer Science and Engineering, 2nd semester Students visited the CDAC to attend Symposium and Hackathon GO AI for Social GOOD on 11th June 2022.

