

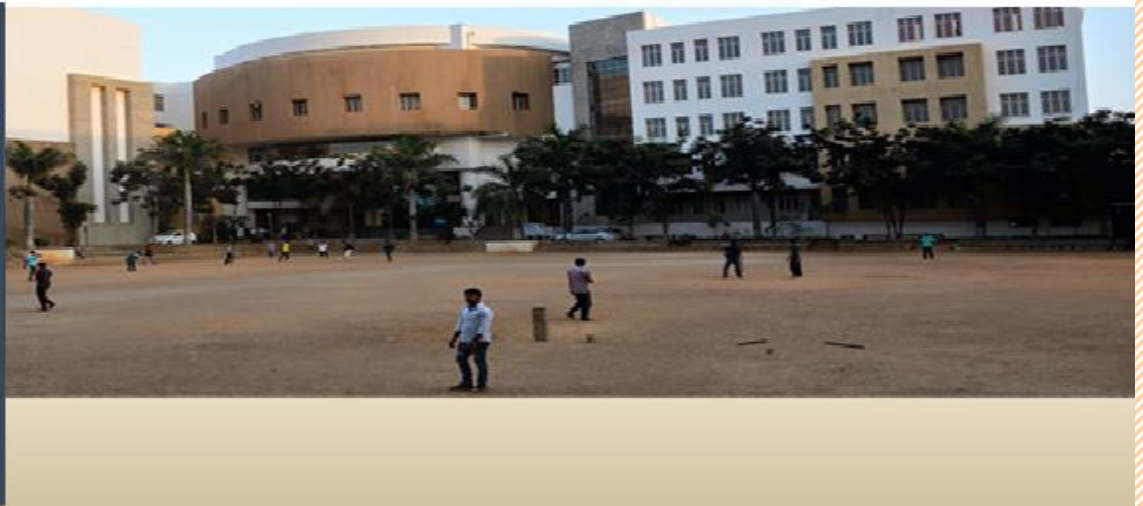
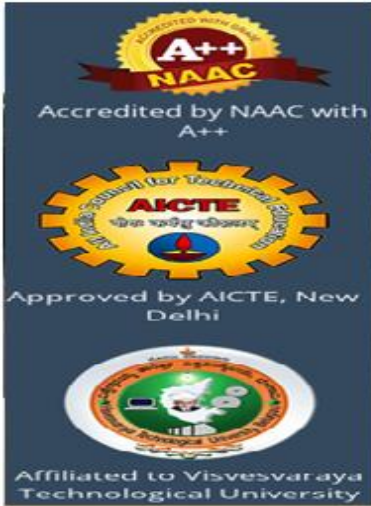
INFO-RISES

VOLUME 10, ISSUE 8, MARCH 2024 - AUGUST 2024
DEPARTMENT OF INFORMATION SCIENCE AND
ENGINEERING



CMR INSTITUTE OF TECHNOLOGY

132, AECS Layout, IT Park Road, Bengaluru- 560037



DEPARTMENT OF INFORMATION SCIENCE & ENGINEERING INFO-RISES 2023-24 EVEN SEMESTER

VOLUME 10 ISSUE 8



Dr. Sanjay Jain
Principal

DEPARTMENT VISION

"To empower our students with necessary domain knowledge and professional skills in information technology for a global career to serve the society."



Dr. B. Narasimha Murthy
Vice-Principal

DEPARTMENT MISSION

- To build a faculty team with industry and academic exposure, capable of empowering and equipping students with necessary domain knowledge.*
- To prepare the students for a global career in computing by enriching the curriculum with a blend of theory and practice.*
- To develop industry relevant technical and communication skills with cross-cultural sensitivity through training programs, vibrant student clubs and student internships.*
- To engage with industry and institutes of repute and collaborate in academics, research and development involving faculty and students.*

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Newsletter Editor:

***Ms. Deepa H
Assistant Professor
Dept. of ISE, CMRIT***

MESSAGE FROM HOD



We are delighted to publish the August - 2024 issue of our bi-annual newsletter, "Info-Rises." The Department of Information Science and Engineering remains actively engaged in academic and research endeavours.

In our commitment to bridging the gap between academia and industry, we have implemented an industry-oriented curriculum and embraced blended pedagogy techniques to enhance teaching and learning outcomes. The entrepreneurial ecosystem within our department serves as a source of inspiration for both faculty and students, encouraging them to transform innovative ideas into profitable ventures.

We are grateful for our dedicated teachers, enthusiastic students, and committed staff members, whose collective efforts contribute to our department's success. Congratulations to our students for their active participation in various technical events, extracurricular activities, research endeavours, and competitive exams. We extend our best wishes to all for a prosperous career and fulfilling life ahead.

**- Dr. Jagadishwari V
HOD, Dept. of ISE**

CLUB ACTIVITIES

Sl.No	CLUB NAME	EVENT	DATE OF CONDUCTION
1	Google DSC	Redesigning Google's Homepage : Innovating the Design Landscape	15/05/2024
		Revolutionizing Data with Plotly : Simplifying Visual Data	30/05/2024
		Introduction to web security- Innovating safe digital practices	12/06/2024
		Data Protection and Digital Privacy: Needs, Legalities & Reality-Creative Strategies for Safeguarding Digital Rights	18/07/2024
		Two Hour To Do: CRUD with Task List App - Creative Solutions for Daily Planning	25/07/2024
		Neural Vision:CNNs in image detection- Inventive AI Solutions	27/07/2024
2	Coding Ninjas	PLAY WITH ARRAYS- An innovative array themed coding event	16/05/2024
		Innovative Hands-On Workshop On Blockchain	13/06/2024
		Computer Vision Conquest: An innovative AI themed quiz	24/07/2024
		Computer Vision Basics: An Interactive Crash Course	25/07/2024
		Dev tool trivia -An innovative Quiz	31/07/2024
		Dev tools Deep Dive-Come join us for a novel seminar	01/08/2024
3	RISE	Tech Tactics-Innovative Coding with strategic chess moves.	29/05/2024
		Sudoku Sensei-Inovative Coding Where Every	06/06/2024

	Number Counts	
	TREASURE HUNT-Go treasure hunting with a lil bit of innovation	12/06/2024
	Creative Code quest-Puzzle your way to Innovation	17/07/2024
	Inventive veracity games -Nothing But fact	18/07/2024
	Startup jenga-Lets play	24/07/2024

INVENTIVE VERACITY GAMES

NOTHING BUT FACTS

DATE: 18-07-24
TIME: 2 PM-4 PM
VENUE: LH 205

EVENT COORDINATOR:
 Medha :9902310998
 Aishwarya:8310596240

<https://forms.gle/mCWfEemiRyEP3kuw5>

Faculty coordinator: Dr.Ciyamala Kushbu S:6380614573

RISE DEPARTMENT presents

TECHTACTICS

INNOVATIVE CODING WITH STRATEGIC CHESS MOVES

DETAILS:
Venue: LH 205
Date: 29th May 2024
Time: 2pm-3.30pm

<https://forms.gle/ZJKSgYe9P6aJJcvVA>

FACULTY COORDINATOR:
 Dr.Ciyamala Kushbu S: 6380614573

EVENT COORDINATOR:
 Aparichita:9019042830
 Chinmayee:8296104117





DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING
CODING NINJAS
PRESENTS

COMPUTER VISION BASICS

AN INTERACTIVE CRASH COURSE

DATE: 25 JULY, 2024
TIME: 2-4 PM
VENUE: LH 205

<https://forms.gle/a7gmpma9Akwk3aYQ7>

FACULTY COORDINATOR:
DR. CIYAMALA KUSHBU S.: 63806 14573

EVENT COORDINATORS:
ADITI: 87928 93876
KHYATI: 99742 31737





DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING
CODING NINJAS
PRESENTS

COMPUTER VISION CONQUEST

An innovative AI themed quiz

DATE: 24 July, 2024
TIME: 2-4 PM
VENUE: LH 204

<https://forms.gle/XLZ6HIUT3GBATntAA>

FACULTY COORDINATOR:
Dr. Ciyamala Kushbu S.: 63806 14573

EVENT COORDINATORS:
Aditi: 87928 93876
Khyati: 99742 31737





DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING
CODING NINJAS
PRESENTS

Dev Tools Trivia




Join us for an innovative quiz!

DATE: 31 July, 2024
TIME: 2-4 PM
VENUE: LH 204

<https://forms.gle/jMs1Ys9E2MQpx4iS8>

FACULTY COORDINATOR:
Dr. Ciyamala Kushbu S.: 63806 14573

EVENT COORDINATORS:
Celia: 84317 67985
Anika: 90076 66579

Neural Vision: CNNs in Image Detection

Inventive AI Solutions

Date: 27/7/2024 (27th July 2024)
Time: 2PM - 4PM
Venue: LH201 (C Block 2nd Floor)
Link: <https://forms.gle/rd2FYj5WPN2pMJC88>

Student Co.: Abhiram Reddy (+91 63620 44789)
Faculty Co.: Dr. Ciyamala Kushbu (+916380614573)

Google Developer Student Clubs







DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING
CODING NINJAS
PRESENTS

Innovative Hands-On Workshop on BLOCKCHAIN

DATE: 13 June, 2024
TIME: 1-4 PM
VENUE: AV Hall 4th Floor

FACULTY COORDINATOR:
Dr. Ciyamala Kushbu S.: 63806 14573

EVENT COORDINATORS:
Mayank: 95234 47007
Mrigank: 79707 83618





DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING
CODING NINJAS
PRESENTS

Dev Tools DEEP DIVE

Come join us for a novel seminar!

DATE: 1 August, 2024
TIME: 2-4 PM
VENUE: LH 204

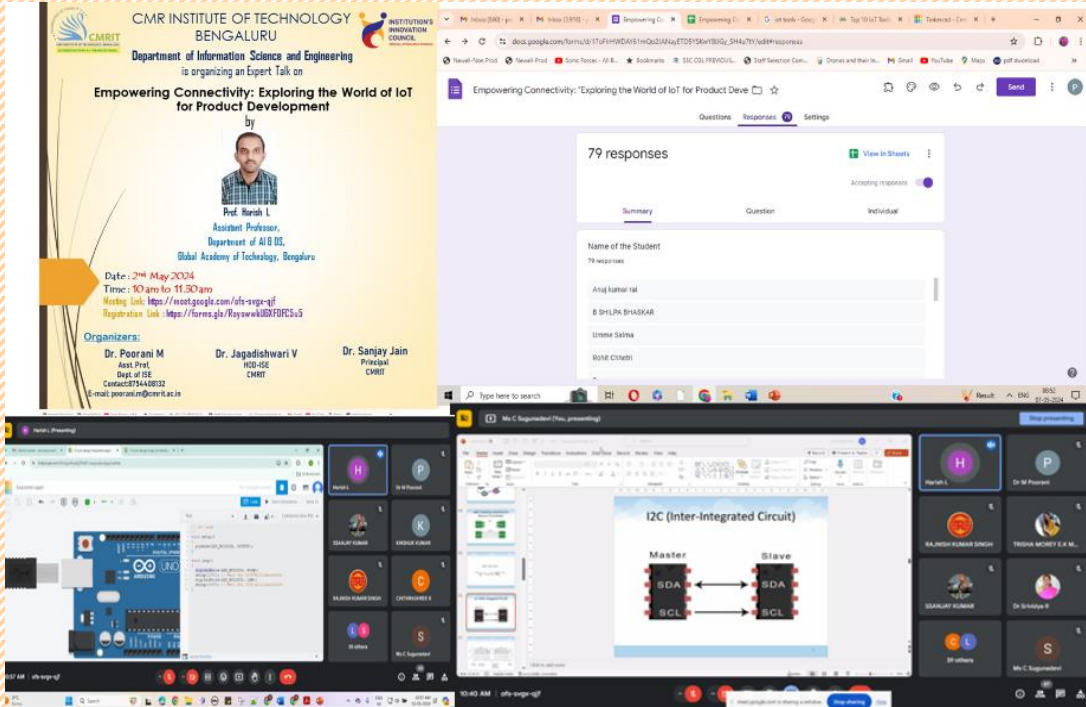
<https://forms.gle/uhzbiSWNXd07swNN9>

EVENT COORDINATORS:
Celia: 84317 67985
Anika: 90076 66579

FACULTY COORDINATOR:
Dr. Ciyamala Kushbu S.: 63806 14573

INDUSTRY CONNECT

- Expert Talk on “Empowering Connectivity: Exploring the World of IoT” for Product Development by Prof. Harish L, Assistant Professor, Department of AI & DS, Global Academy of Technology, Bengaluru.



- Department of Information Science and Engineering conducted Industrial Visit to “ISRO” dated on 22.05.24 for II-year students of the ISE Department.



- Department of Information Science and Engineering conducted Workshop on “Next-gen Web Tech Intensive: React, AngularJS, Kubernetes, Docker and MongoDB” from 27th May to 31st May 2024.

ABOUT INSTITUTION
CMR Institute of Technology (CMRIT) is a premier Engineering Institution affiliated to Visvesvaraya Technological University, Belagavi, approved by AICTE, New Delhi and recognized by the Government of Karnataka. Recently accredited by NAAC with A++ grade. The institution was established in the year 2000 by CMR Inanadhara Trust.

ABOUT DEPARTMENT
The Department of Information Science & Engineering established in the year 2000, offers an undergraduate programme where students learn core computer and electronics subjects such as software, networking, programming, operating systems, web development, and database management. The programme also lets students gain knowledge in master aspects such as Internet-of-Things (IoT), Cyber Security, Artificial Intelligence, Biometric Management, and Software Development. The Workshop has been planned to conduct under the ISE Department Start-Up EduCast.

OBJECTIVES OF WORKSHOP
Likely to provide participants such as students, developers, data scientists, researchers, and professionals who are interested to possess in-depth understanding and hands-on experience in Full stack development that is commonly used in modern web development and deployment. The workshop serves as a platform for both beginners and more experienced individuals to delve into the fascinating world of full-stack development with the latest trends and technologies in web development, emphasizing their significance in building robust, scalable, and efficient web applications.

ABOUT WORKSHOP
Participants would learn about React and AngularJS, which are widely used for building dynamic and interactive user interfaces. Kubernetes has emerged as the leading platform for container orchestration, enabling efficient deployment, scaling, and management of containerized applications and containerizing their applications using Docker. The workshop would cover MongoDB basics, including data modeling, querying, and best practices for using MongoDB in web applications. Overall, the objective of the workshop would be to equip participants with practical skills and knowledge in full stack development that leads to develop, deploy, and manage modern web applications. Throughout the workshop, participants can expect a blend of theoretical sessions, practical demonstrations, hands-on exercises, and real-world project work. They will have the opportunity to apply their newfound knowledge and skills to build, deploy, and manage modern web applications using industry-standard technologies.

PATRONS

- Shri K. C. Ramanurthy, Chairman, CMRGI
- Dr. R. C. Sahitha Ramanurthy, President, CMRIT, Chancellor, CMR University
- Shri K.R. Jayashankar, CEO, CMRGI, Pro-Chancellor, CMR University

ADVISORY COMMITTEE

- Dr. Sanjay Jain, Principal, CMRIT
- Dr. B. Narasimha Murthy, Vice-Principal, CMRIT
- Dr. Jagadishwari V, HoD, Department of ISE

WORKSHOP COORDINATORS

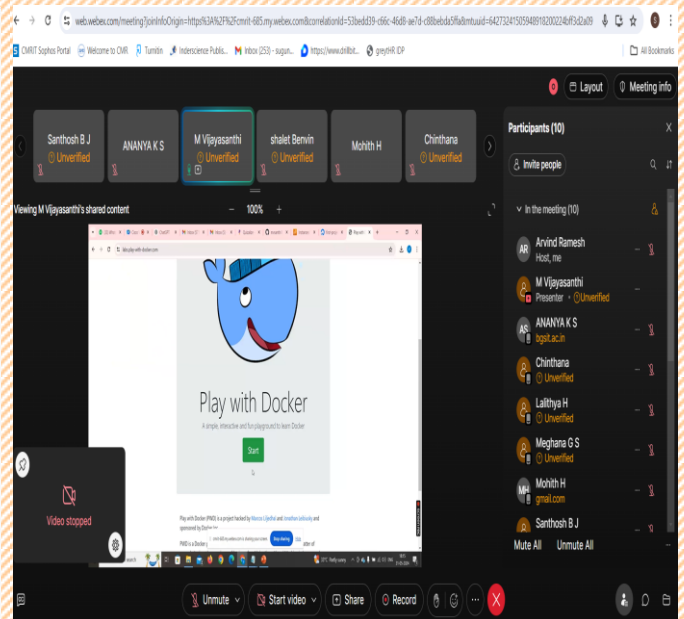
1. Dr. Poorani Marimuthu, Assistant Professor ISE Department, CMRIT, Bengaluru.
2. Prof Sugandhree C, Assistant Professor ISE Department, CMRIT, Bengaluru.
3. Prof Arvind R, Assistant Professor ISE Department, CMRIT, Bengaluru.

One Week National Level Online Workshop on "Next-gen Web Tech Intensive: React, AngularJS, Kubernetes, Docker, MongoDB"

In Association with ISE Dept. Start-Up

EduCast DATE
27-05-2024 TO 31-05-2024

CMRIT
CMR INSTITUTE OF TECHNOLOGY
#132 AEC'S LAYOUT, IITP, MAIN ROAD
BENGALURU-560037



- Conducted Expert Talk on “Deep Learning Meets Image Translation: A Creative Approach” by Dr. Joshan, Vellore Institute of Technology, Chennai on 12th June 2024.

CMR INSTITUTE OF TECHNOLOGY BENGALURU
Department of Information Science and Engineering is organizing an Expert on

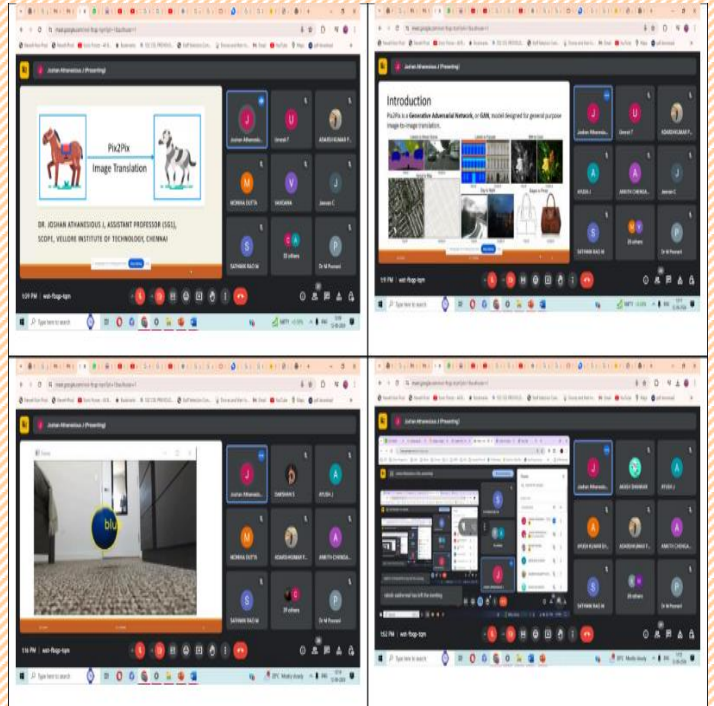
Deep Learning Meets Image Translation: A Creative Approach

Date : 12.06.2024
Time : 1 pm to 3 pm
Meeting Link : <https://meet.google.com/nzs-yutu-ztt>
Registration Link : <https://forms.gle/VhImKL0rev0ivYMDA>

Dr. Joshan Athanasios J
Assistant Professor,
School of Computer Science and Engineering
Vellore Institute of Technology, Chennai

Organizers:

- Dr. Poorani M**
Asst. Prof,
HoD, ISE
Contact: 944408132
E-mail: poorani@cmrvt.ac.in
- Dr. Jagadishwari V**
HoD-ISE
CMRIT
- Dr. Sanjay Jain**
Principal
CMRIT



- Conducted a Webinar on "Innovate with BitsGate: Exploring Innovations and Opportunities in GenAI Security & Privacy" by Mr. Arjun Ghosal, Chief Information Security Officer and Mr. Rajdeep Das, Chief Executive Officer, BitsGate, Kolkata, on 14th June 2024

CMR INSTITUTE OF TECHNOLOGY BENGALURU
 INSTITUTION'S INNOVATION COUNCIL

Department of Information Science & Engineering is organizing a Webinar on

Innovate with BitsGate: Exploring Innovations and Opportunities in GenAI Security & Privacy

by



Mr. Rajdeep Das
CEO, BitsGate
Kolkata, India



Mr. Arjun Ghosal
CISO, BitsGate
Kolkata, India

Registration Link : <https://forms.gle/Ko8vg7Jc1EKNvS7>
 Meet Link : <https://meet.google.com/mzs-mdjz-nt>

Date: 14th June 2024
 Time: 11.00 am to 12.00 pm

Organizers:
 Prof. Sugunadevi C, Inter-ship Coordinator (ISE), 1962907972, sugunadevi.c@cmrit.ac.in
 Dr. Jagadishwari V, HOD-ISE, CMRIT
 Dr. Sanjay Jain, Principal, CMRIT

The screenshot shows a Zoom meeting in progress. The main window displays a slide titled "Innovate with BitsGate: Exploring Innovations and Opportunities in GenAI Security & Privacy". The interface includes a "People" panel on the right showing participants, a "Chat" panel, and various meeting controls at the bottom. The meeting ID is visible as 922 442 1212.

- Expert Talk on "Socket Programming in Secured Space Communication for Research" by Dr. Smitha sasi, Professor, Dayanand sagar college of Engineering, Bangalore on 26th June 2024.

CMR INSTITUTE OF TECHNOLOGY BENGALURU
 INSTITUTION'S INNOVATION COUNCIL

Department of Information Science and Engineering is organizing an Expert on

Socket Programming in Secured Space Communication for Research



Dr. Smitha Sasi
Professor,
Department of Electronics & Telecommunication Engineering,
Dayanand Sagar College of Engineering, Bangalore

Date : 26.06.2024
 Time : 1 pm to 3 pm
 Meeting Link : <https://meet.google.com/svo-amko-fji>
 Registration Link : <https://forms.gle/4BKu9kbTwwqFKNK31B>

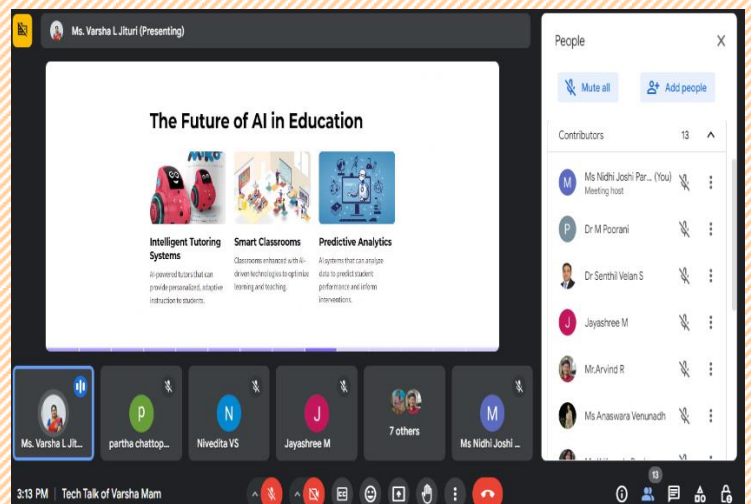
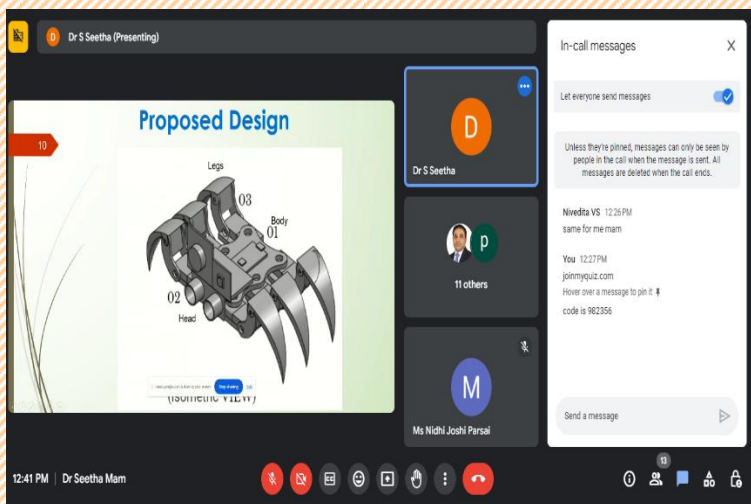
Organizers:
 Dr. Poorani M, Asst. Prof., Dept. of ISE, Contact: 4408132, E-mail: poorani@cmrit.ac.in
 Dr. Jagadishwari V, HOD-ISE, CMRIT
 Dr. Sanjay Jain, Principal, CMRIT

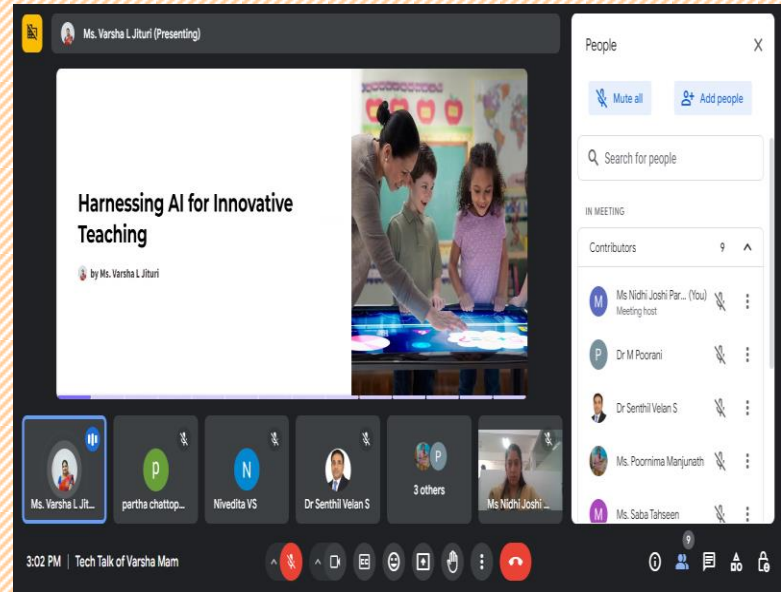
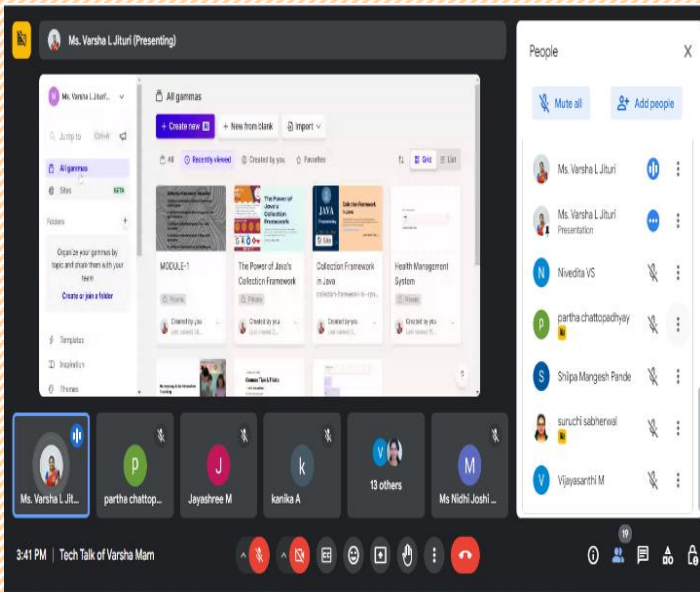
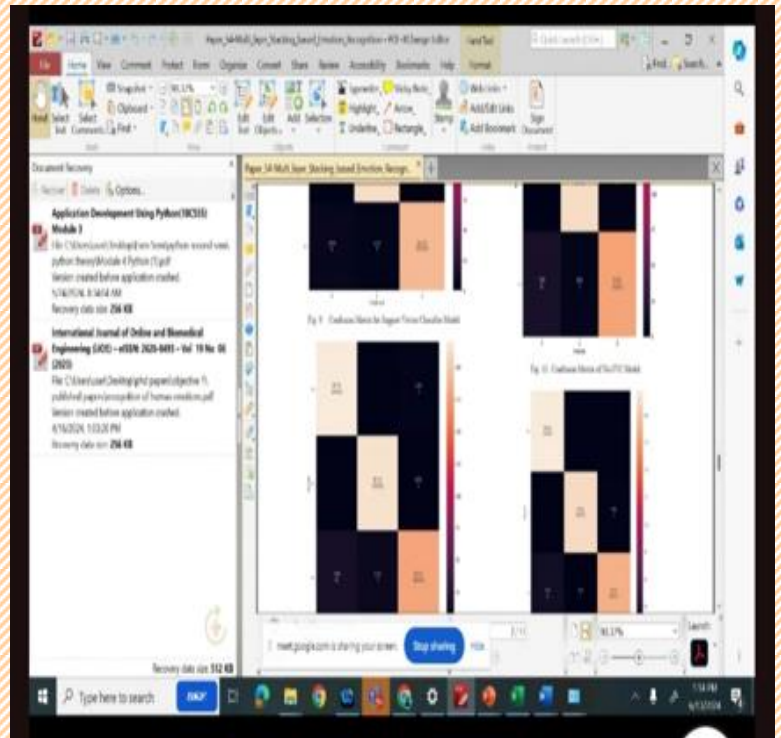
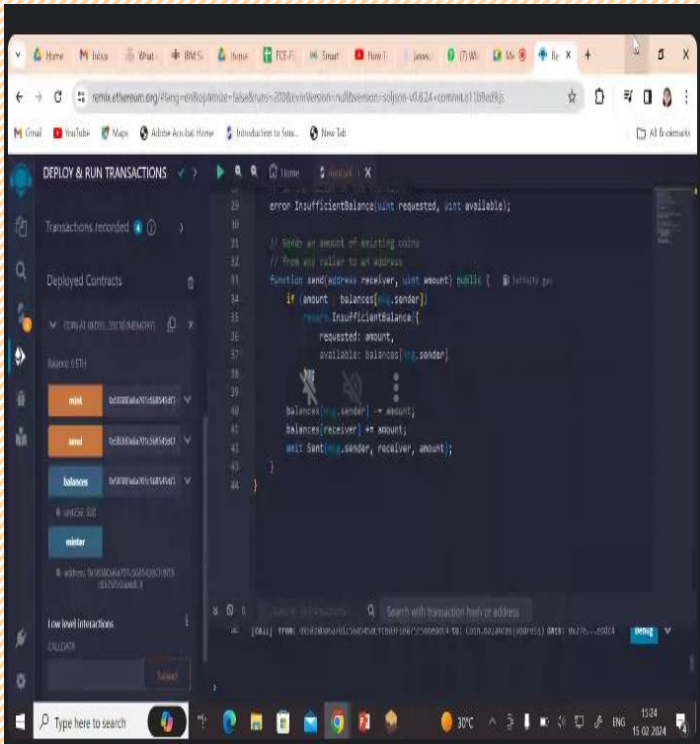
The screenshot shows a Zoom meeting in progress. The main window displays a slide titled "Socket Programming in Secured Space Communication for Research". The interface includes a "People" panel on the right showing participants, a "Chat" panel, and various meeting controls at the bottom. The meeting ID is visible as 922 442 1212.

FACULTY TECHTALK

Faculty members in the department have given a tech-talk on latest trends software tools and research focused topics related to ISE.

FACULTY	TOPIC
C H Manasa	Exploring Federated Learning Technique
Varsha L Jituri	Harnessing AI for Innovative Teaching
Dr. Srividya R	A Realizable Data Encryption Strategy
Dr. Sangeeta Bhanja Chaudhari	Introduction to Metaverse and Related Research Directions
Saba Tahseen	Multi-layer Stacking-based Emotion Recognition using Data Fusion Strategy
Dr Poorani M	Introduction and Hands-on Session on Large Language Models
Dr Senthil Velan	Recent Research Trends in Generative AI
Nidhi Joshi Parasi	Data based augmentation malware classification
Rakesh Kumar	Use of OData in building Restful API
K Komala Devi	Microsoft Power BI
Arvind R	Next-Gen Testing: Harnessing Cypress and Selenium for Superior Web





FACULTY PUBLICATIONS

1. Dr. Swathi Y and Ashwini R Doke has published a paper titled “Detection of Fake Products Using Blockchain”, 2nd International Conference on Intelligent Data Communication Technologies and Internet of Things (IDCIoT), IEEE 2024.
2. Dr. Swathi Y has published a paper titled “YOLOv8: Advancements and Innovations in Object Detection”, In International Conference on Smart Computing and Communication (pp. 1-13), Springer Nature Singapore 2024.
3. Dr. M. Farida Begam has published a paper titled “Machine Learning based Learning Style Detection using Felder-Silverman Framework”, in International Conference on Innovative Computing, Intelligent Communication and Smart Electrical Systems (ICSES) (pp. 1-7). IEEE 2024 (March)
4. Dr. Swathi Y has published a paper titled “A Survey on Machine Learning Algorithms for the Detection of Chronic Kidney Disease”, In 2nd International Conference on Automation, Computing and Renewable Systems (ICACRS) (pp. 1832-1837). IEEE 2024 (January)
5. Ms. Shilpa Mangesh Pande has published a paper titled “Time Series Modelling Approach for Predictive Analytics” In Third International Conference on Distributed Computing and Electrical Circuits and Electronics (ICDCECE) (pp. 1-6). IEEE 2024
6. Ms. Devisivasankari P has published a paper titled “Intelligent Computational Model for Energy Efficiency and AI Automation of Network Devices in 5G Communication Environment” Tsinghua Science and Technology, 29(6), 1728-1751. (Scopus Q1), 2024
7. Ms. Devisivasankari P has published a paper titled “AI Methods for Tracking Residents Emotional Well-Being in a Smart Community” In IEEE 4th International Conference on Communication, Computing and Industry 6.0 (C216) (pp. 01-05).

8. [Dr. Srividya R](#) has published a paper titled “Computer vision-based home automation” In Recent Trends in Computational Sciences (pp. 51-56). CRC Press. 2024.
9. [Dr. Srividya R](#) has published a paper titled “A Novel Method of Bitcoin Price Prediction” In International Conference on Computing and Data Science (ICCDs), April 2024
10. [Dr. Seetha](#) has published a paper titled "PDSCM: Packet Delivery Assured Secure Channel Selection for Multicast Routing in Wireless Mesh Networks" Technologies 11, no. 5: 130. (Scopus Q1).
11. [Dr. Seetha](#) has published a paper titled “Applying U-Net CNN Approach for Landslide Susceptibility Mapping”. In Third International Conference on Intelligent Techniques in Control, Optimization and Signal Processing (INCOS) (pp. 1-6). IEEE 2024
12. [K P Vyshali Rao](#) has published a paper titled “Air Quality Predictor to Reduce Health Risks and Global Warming” In 2nd International Conference on Automation, Computing and Renewable Systems (ICACRS) (pp. 1104-1109). IEEE 2024.
13. [Dr. Poorani Marimuthu and Shanuja, Christlin C](#) has published a Handbook titled “Innovative applications of data science: NLP in travel and tourism industries”, Handbook of Research on Data Science and Cybersecurity Innovations in Industry 4.0 Technologies, 2023, pp. 199–219.
14. [Dr. Poorani Marimuthu](#) has published a paper titled “Herpes zoster identification using optimized deep neural network” In International Conference on Computer & Communication Technologies (pp. 361-370). Springer Nature Singapore.
15. [Arvind R](#) has published a paper titled “Deep Learning based Segmentation Approach for Automatic Lane Detection in Autonomous Vehicle” In International Conference on Self Sustainable Artificial Intelligence Systems (ICSSAS) (pp. 268-273). IEEE. 2024.

16. [Arvind R](#) has published a paper titled “Comprehensive Machine Learning-based Approach for Intelligent Glaucoma Detection” In 5th International Conference on Mobile Computing and Sustainable Informatics (ICMCSI) (pp. 97-102). IEEE. 2024.
17. [Ms. Sugunadevi C](#) has published a paper titled “Binary Classification of Mucormycosis Infection Severity using Transfer Learning with VGG16”, In 2nd International Conference on Futuristic Technologies (INCOFT) (pp. 1-5). IEEE. 2024.
18. [Ms. Sugunadevi C](#) has published a paper titled “Dimensionality Reduction on Fish Dataset with Different Machine Learning Algorithms Comparison” In International Conference on Ambient Intelligence, Knowledge Informatics and Industrial Electronics (AIKIE) (pp. 1-8). IEEE. 2024.
19. [Ms. Sugunadevi C](#) has published a paper titled “Detection of Mineral Deficiencies and Pests Symptoms in Coffee Crop Using Computer Vision”, In 2nd International Conference on Intelligent Data Communication Technologies and Internet of Things (IDCIoT) (pp. 835-842). IEEE. 2024.
20. [Dr. Ciyamala Kushbu S, Deepa H, C H Manasa](#) has published a paper titled “Exploring Strategies for Identifying and Resolving Challenges in Deep Learning-Based Biventricular Segmentation”, In International Conference for Women in Innovation, Technology & Entrepreneurship (ICWITE) (pp. 665-669). IEEE. 2024.
21. [Ms. K Komala Devi](#) has published a paper titled “Sustainable Food Development Based on Ensemble Machine Learning Assisted Crop and Fertilizer Recommendation System”, Journal of Machine and Computing, Volume 04, Issue 02, pp. 317-326. 2024
22. [Ms. K Komala Devi](#) has published a paper titled “Food Classification by extracting the important features using VGGNet based Models in Precision Agriculture”, In 2nd International Conference on Networking and Communications (ICNWC) (pp. 1-7). IEEE. 2024

23. Ms. Jayashree has published a paper titled “M Feature Reduction Set for the Prediction of Renal Disease Using Ensemble Methods and Optimal Hyperplane Algorithms” In International Conference on Data Science, Computation and Security (pp. 279-289). Singapore: Springer Nature Singapore. 2023.

PATENTS

Sl. No.	Name of the Faculty	Patent Title	Application No
1.	Dr Seetha S	Voice for Voiceless: An image processing approach that bridges the gap between the deaf and speaking public	202441049968
2.	Dr Seetha S	IOT System for Early prediction of chronic renal Ailment	202441049938
3.	Ms Shilpa Pandey	A Smart water supply monitoring system	202441047794
4.	Ms Devisivasankari P	Eco-Friendly Water-Soluble Packaging Material	202441032805
5.	Ms Vyshali Rao K P	Solar Powered Pneumatically Cleanable Biogas generator in Railway Sanitation	202441047248
6.	Dr Poorani M	IoT Based Intelligent Smart Home for Elderly People and Voice Assisted Security System with Facial Recognition	202441049918
7.	Dr Poorani M	Abnormality Detection in RHM using Adaptive DbK -MeansC	202441049911
8.	Ms Sugunadevi C	An IoT based control system for Aquarium Monitoring	202441048029
9.	Mr Arvind R	A Model for Smart Surveillance System using Cloud and IOT for Security.	202441048058
10.	Mr Arvind R	Mobile Device Charging System with Adaptive Solar Panel using Artificial Intelligence.	202441049571
11.	Ms Komala Devi	Agriguide: Explainable AI based Crop Suggestion tool to empower farmer with transparent recommendations.	202441043130
12.	Ms Nidhi Joshi	Elegance in Connectivity: Wireless Charging Smartphone Case	202441050766

13.	Ms Anaswara Venunath	BlindSafe Gadget for pedestrian cross	202441037730
14.	Ms Deepa H	Adaptive VR Platform for Personalized Stress Relief and Meditation Based on Real-Time Biometric Feedback	202441050055
15.	Ms Manasa C H	An AI-Driven Application for Comprehensive Career Guidance and Personalized Recommendations for Students	202441050060
16.	Dr Ciyamala Kushbu	Eco-friendly Innovation in Milk Packaging for Extended Shelf Lif	202441049905
17.	Saba Tahseen	Enhancing TED Talk Discovery: A Machine Learning Approach to Personalized Recommendations	202441043205
18.	Ms Upasana Mahajan	Intelligent Passenger Counting System for Public Buses using AI and Image Processing	202441043309
19.	Ms Jayashree M	IoT System for Early Prediction of Chronic Renal Ailment	202441049938

I&E CELL ACTIVITIES



- Institution's Innovation Council Organized a three-day workshop on “Startup training for 6th Sem ISE Students”. It was held from 15-7-24 to 18-07-24, in the II Floor MECH AV Hall. The resource person is **Mr. Naved A**, Entrepreneur, Lean Startup Enthusiast, Incubator/Accelerator Builder, Startup Ecosystem Builder, Project Management, Business Consultant, Startup Investor, Karnataka

I&E Cell of ISE Department with IIC CMRIT
organizing a workshop on
Startup Training for 6th Sem ISE students
by



Naved A.
Entrepreneur, Lean Startup Enthusiast, Karnataka

Day 1(15-07-24):- Two Dollar startup Activity (1pm to 4pm)
Day 2(16-07-24):- Innovative Project Presentation (1 to 4 pm)
Day 3(18-07-24):- Startup Test (1 to 4 pm)

Date: 15th July 24 to 18th July 24
Venue: II Floor MECH AV Hall

Registration Link : <https://forms.gle/yXWYLiWmpoYNnz8PA>

Organizers:
Dr. Jagadishwari V
HOD, ISE
Prof. K Komala Devi ISE Head - ISE
CMRIT
Dr. Vakula Rani J
IIC-President
CMRIT
Dr. Seetha S
IIC- Vice President
CMRIT
Dr. Sanjay Jain
Principal
CMRIT



- Institution's Innovation Council organized an Exposure Visit to Atal Incubation Centre Jyothi Institute of Technology on 30th May from 10 a.m. to 12.30 p.m.



- Institution's Innovation Council Organized a “Mentoring Event: Demo Day/Exhibition/Poster Presentation of Business Plans & linkage with Innovation Ambassadors/Experts for Mentorship Support” on 29th May from 1 to 4 pm.





IIC unit of CMRIT Organizes a
POC competition on

**Demo Day/Exhibition/Poster Presentation of
Business Plans & linkage with Innovation
Ambassadors/Experts for Mentorship Support**



Register Here



Kindly Note :

- 1. Mandatory for all the registered MANTHAN Teams**
- 2. Teams need to present the POC (Proof of Concept) of an idea in the form of a Demo/Prototype/ Video**

29th May 2024 | 1:00 PM - 4:00 PM | LH 501 & 502

Dr. S. Seetha	Dr. Kesavamoorthy R	Dr. Shanthi M.B	Dr. Sanjay Jain
Associate Professor & Vice President- IIC CMRIT	Director-Startups.	IIC-President, CMRIT	Principal, CMRIT
seetha.s@cmrit.ac.in			



- Institution's Innovation Council Organized a Startup Training and Evaluation for Faculty from June 3rd 2024 to Jul 20th 2024



INDUSTRY CONNECT ACTIVITIES ATTENDED BY FACULTY

SL NO.	FACULTY	EVENT/TOPIC	VENUE
1	Dr Ciyamala Kushbu S	5-days National FDP on Data Analytics using Power BI and Tableau	Online - EXCELR
2	Ms Ch.Manasa	5-days National FDP on Deep learning and Artificial Intelligence	Online - EXCELR
3	Ms Apurva Chaudhari	5-days National FDP on Data Analytics using Power BI and Tableau	Online - EXCELR
4	Ms Apurva Chaudhari Ms Akanksha A Ms Neera Chaudhary Dr Harikrishnan N Ms CH.Manasa Ms Deepa H Dr.Ciyamala kushbu Dr.Poorani M Ms Sugunadevi C Mr Arvind R Ms Shilpa Mangesh Pande	Generative AI Models and Applications of Machine Learning	Jain Deemed to be University
5	Dr. Seetha S	Wipro's Advanced Technology Program [ATP] on Artificial Intelligence & Machine Learning	Wipro



FACULTY ACHIEVEMENTS

- Dr. Srividya R obtained KSCST funds for the proposal titled “MINDMATE: A psychology Chatbot”, 2023-2024.
- Dr.Srividya and Prof.Vyshali Rao Received Faculty with Best Mega Application Award from CMRIT.
- Mr. Arvind was honored with the Faculty Award for Outstanding Contribution and Leadership.
- Prof. Shilpa Mangesh Pande was recognized for her startup, EduCast.



- Ms. Shilpa Mangesh Pande received an Elite+ Silver Certificate in the NPTEL exam for the MOOC Course "Programming in Java" during April 2024.

Elite

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

This certificate is awarded to
SHILPA MANGESH PANDE
for successfully completing the course
Programming in Java

with a consolidated score of **86** %

Online Assignments	25/25	Proctored Exam	61/75
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Total number of candidates certified in this course: **14693**

Jan-Apr 2024
(12 week course)

Prof. Haimanti Banerji
Coordinator, NPTEL
IIT Kharagpur

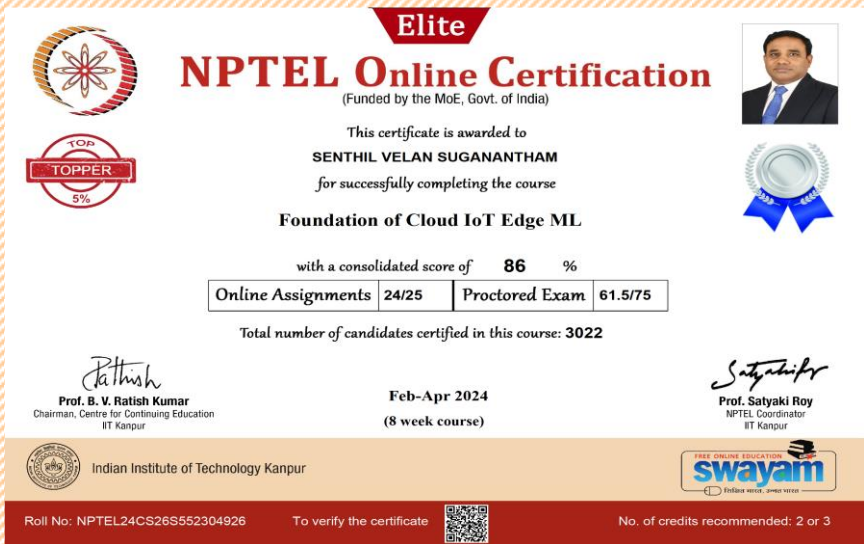
Indian Institute of Technology Kharagpur

swayam

Roll No: NPTEL24CS43S952304044 To verify the certificate

No. of credits recommended: 3 or 4

- Dr. Senthil Velan Suganandham received an Elite+ Silver Certificate in the NPTEL exam for the MOOC Course "Foundation of Cloud IoT Edge ML" during April 2024.



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

This certificate is awarded to
SENTHIL VELAN SUGANANTHAM
 for successfully completing the course
Foundation of Cloud IoT Edge ML

with a consolidated score of **86** %

Online Assignments	24/25	Proctored Exam	61.5/75
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Total number of candidates certified in this course: 3022

Prof. B. V. Ratish Kumar
 Chairman, Centre for Continuing Education
 IIT Kanpur

Feb-Apr 2024
 (8 week course)

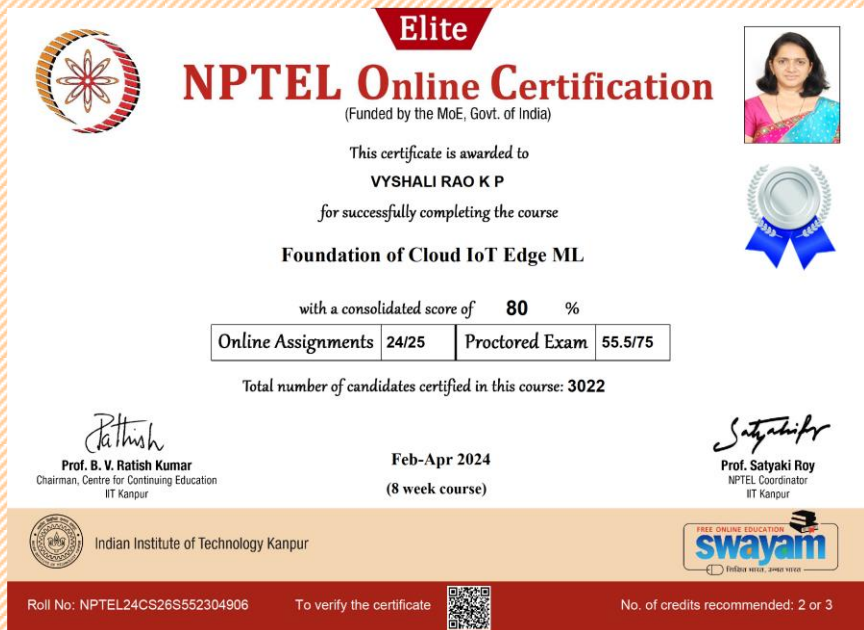
Prof. Satyaki Roy
 NPTEL Coordinator
 IIT Kanpur

Indian Institute of Technology Kanpur

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 India's next, done right

Roll No: NPTEL24CS26S552304926 To verify the certificate  No. of credits recommended: 2 or 3

- Ms. Vyshali Rao K P received an Elite+ Silver Certificate in the NPTEL exam for the MOOC Course "Foundation of Cloud IoT Edge ML" during April 2024.



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

This certificate is awarded to
VYSHALI RAO K P
 for successfully completing the course
Foundation of Cloud IoT Edge ML

with a consolidated score of **80** %

Online Assignments	24/25	Proctored Exam	55.5/75
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Total number of candidates certified in this course: 3022


Prof. B. V. Ratish Kumar
 Chairman, Centre for Continuing Education
 IIT Kanpur

Feb-Apr 2024
 (8 week course)

Prof. Satyaki Roy
 NPTEL Coordinator
 IIT Kanpur

Indian Institute of Technology Kanpur

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Roll No: NPTEL24CS26S552304906 To verify the certificate  No. of credits recommended: 2 or 3

- Ms. Deepa H received an Elite+ Silver Certificate in the NPTEL exam for the MOOC Course "Joy of Computing using Python" during April 2024.



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

This certificate is awarded to
DEEPA H
 for successfully completing the course
The Joy of Computing using Python

with a consolidated score of **75** %

Online Assignments	24.91/25	Proctored Exam	50.25/75
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Total number of candidates certified in this course: **12432**

Prof. Devendra Jalihal
 Chairperson,
 Centre for Outreach and Digital Education, IITM

Jan-Apr 2024
 (12 week course)

Prof. Andrew Thangaraj
 NPTEL, Coordinator
 IIT Madras

Indian Institute of Technology Madras

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 एनपीटीईल एकेडमी

Roll No: NPTEL24CS57S652301495 To verify the certificate  No. of credits recommended: 3 or 4

- Ms. K Komala Devi received an Elite+ Silver Certificate in the NPTEL exam for the MOOC Course "Machine Learning for Soil and Crop Management" during April 2024.



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

This certificate is awarded to
K KOMALA DEVI
 for successfully completing the course
Machine Learning for Soil and Crop Management

with a consolidated score of **75** %

Online Assignments	20.6/25	Proctored Exam	54/75
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Total number of candidates certified in this course: **338**

Jan-Apr 2024
 (12 week course)

Prof. Haimanti Banerji
 Coordinator, NPTEL
 IIT Kharagpur

Indian Institute of Technology Kharagpur

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Roll No: NPTEL24AG02S1052301623 To verify the certificate  No. of credits recommended: 3 or 4

STUDENT ACHIEVEMENTS

SL NO.	STUDENT	EVENT
1	Chetan S Sagar Kannajjanavar Ayush Kumar Jhenkar MS Pavan HA Manoj Kumar C	First Place in VTU Bangalore Central Division Tournament – Hockey (M)
2	Shuvarjan Aman Kamat	Second Place in VTU Bangalore Central Division tournament - Football (M)
3	Chetan S Sagar Kannajjanavar	Fourth Place in VTU State Level Hockey Tournament
4	Sudiksha Biradar	Competitive Programming Hackathon
5	Nikita Manjhi Ms. Meghana Nandipati	Competitive Programming Hackathon



PROJECT EXHIBITION

➤ *Mini project exhibition was scheduled on 24th July 2024 in the departmental labs for 4th semester students. Students exhibited their technical skills along with their creativity, communication and problem solving skills. Around 30 projects were exhibited. These projects were implemented using Python, HTML, CSS, JavaScript and C. The faculties from other departments visited the same and gave their valuable suggestions.*



- **Entrepreneurship project exhibition was scheduled on 25th July 2024 in the departmental labs for 6th semester students. Students exhibited their technical skills along with their creativity, communication and problem solving skills.**



PLACEMENTS

COMPANY IN WHICH PLACED	STUDENTCOUNT	PACKAGE
Bidgely technologies	1	7.5 LPA
Capgemini GenC	3	4.25 LPA
Ceptes Freshers	6	4 LPA
Certometer	2	4 LPA
Cognizant GenC	3	4 LPA
Epsilon-2	2	8 LPA
Gida technologies	3	7 LPA
Intellipaat_BE/MCA	2	9 LPA
ITOrizon 2	1	3.5 LPA
Koch 2	2	7.5 LPA
Koch-Apprenticeship	14	4.8 LPA
Microland	5	3.25 LPA
Mu Sigma	3	5 LPA
Quantiphi	3	8.5 LPA
Talent trek	1	4-6 LPA
Tech Mahindra	2	3.5 LPA
Wonksknow	2	8-10 LPA



Student Article

Breaking the Stigma: Addressing Depression and Anxiety in Young Adults

Do you think you are in a good mental state? What if you're living an unfulfilling life without even realizing it? Mental conditions like depression or anxiety falls on a spectrum rather than being confined to a specific point. We are witnessing increasing amount of depression and anxiety in young people even though there is no such specific age group to fall under this condition, There is no single cause of depression as many people think, It is a misconception that depression is caused only by major tragic events like losing loved ones or any personal heartbreaks but reasons might be many such as social status with peers, academic pressure, career uncertainty, regular conflicts within friends circle and family, unhealthy lifestyle, excessive use of social media, life events, hormones, chemical imbalances, and genetics can all play differing roles depending on the individual. One of the primary factors is overwhelming pressure to succeed, modern world places heavy emphasis on academic performance, career milestones and social status. Many youngsters feel if they don't meet these high expectations, they would be left behind which leads to feelings of inadequacy and chronic stress. This pressure often worsened by social media, where the constant comparison to others can create a distorted perception of success and happiness. The curated lives that people present online can make young adults feel that they are falling short, further fuelling anxiety and depression. The transition from adolescence to adulthood is a period of significant change and uncertainty, as young adults move away from home, start college or jobs and take on more responsibilities. They are often left to navigate these challenges with little support. The sudden shift to independence can be overwhelming, leading to feelings of isolation and loneliness. Learned patterns of negative thinking, feeling helpless rather than learning to feel capable of finding solutions for life's challenges lead to poor satisfaction with one's life quality resulting in lack of confidence and low self-esteem.

So, what exactly happens to the brain during this phase? Depression is associated with elevated cortisol levels (the stress hormone), which can impair the development of neurons in the brain, particularly in regions like the hippocampus. This can lead to deficiencies in neurotransmitters such as serotonin and norepinephrine, which are crucial for cognitive function, mood regulation, behaviour and communication between brain cells. These chemical imbalances can weaken neural pathways and disrupt connections between brain cells, altering an individual's perception of life in a negative manner and making even simple daily activities difficult. Additionally, serotonin deficiency is often implicated in anxiety, contributing to the overall picture for some individuals. Having no aspiration in life and lack of motivation to take up simple challenges, losing appetite, being restless throughout the day, sleeping too much or having trouble in either falling asleep or staying asleep, feeling everything in life is too hard, feeling worthless or guilty, social withdrawal and losing interest in things which used to be enjoyable are some of the symptoms of depression.

Despite growing awareness, stigma surrounding mental health remains a significant barrier to seek help, many young adults feel ashamed or embarrassed to admit that they are struggling, fearing that they will be judged or misunderstood. This stigma can prevent them from reaching out to friends, family and seek professional help through psychiatrists. It is totally normal to feel weak at certain stages of life as human beings, there is nothing to be ashamed of in that and can always come out of this phase with right professional help, healthy lifestyle and environmental changes. There are researches proving regular exercise, mindfulness meditation, breathing techniques, journaling, spending time with trusted friends and family while expressing inner thoughts and feelings can help people to come out of this condition.

**Hruthvik S N
(1CR21IS065)**

SOCIAL MEDIA ANXIETY

Ever feel like social media is stressing you out?

You're scrolling through Instagram, TikTok, or whatever your go-to app is, and you start feeling this weird anxiety. You're not alone—this is what people call social media anxiety, and it's something a lot of us go through.

What's the deal with social media anxiety?

Basically, it's that uneasy feeling you get from being on social media too much. Maybe you're stressing over missing out on events, or you're constantly comparing yourself to others, thinking, "Why does their life seem so much cooler than mine?" Or worse, you might be dealing with nasty comments or even cyberbullying. And let's not forget the pressure to always look perfect online, like you have to post that flawless selfie or the coolest story. All this can seriously mess with your head.

Why does this happen?

First off, there's **FOMO**—Fear of Missing Out. You see your friends hanging out without you, or someone's posting about some epic trip, and suddenly you're feeling left out. Then there's the whole comparison game. It's so easy to look at someone's highlight reel and think, "Wow, they've got it all together," when in reality, they're only showing you the good parts. And yeah, if you've ever dealt with cyberbullying or trolls, you know how rough that can be. Plus, there's that constant pressure to look like you've got a perfect life, which is exhausting.

So how does all this social media stuff actually affect you?

Well, it can make you feel more stressed out and mess with your self-esteem. Sometimes, it can even make you feel isolated, like you're not really connecting with anyone, even though you're always "connected." If you don't keep this anxiety in check, it can lead to bigger problems like depression or more serious anxiety.

How to Handle It:

•

Set Limits: Control your screen time so you're not on social media all day.

- **Be Selective:** Follow accounts that make you feel good, and unfollow or mute the ones that don't.
- **Take Breaks:** Regularly step away from social media to reset and focus on real life.
- **Focus on Real-Life Connections:** Spend quality time with friends and family offline to balance out your online life.

In the end, social media is supposed to be fun and a way to stay connected, but just keep an eye on how it's making you feel. If you start noticing that it's causing more stress than it's worth

Aishwarya Achari
[1CR23IS400]

Faculty Article

Brain-Computer Interfaces (BCIs): The Future of Neural Technology

A Brain-Computer Interface (BCI) is an advanced technology that establishes a direct communication pathway between the brain and external devices, enabling individuals to control these devices using their neural signals. This innovative field bridges neuroscience, computer science, and engineering to help individuals with neurological impairments, allowing them to interact with their environment in new and groundbreaking ways. BCIs work by decoding the electrical activity in the brain, typically through non-invasive methods like electroencephalography (EEG) or invasive techniques involving electrodes implanted directly into the brain. These signals are then processed by algorithms that interpret neural patterns and translate them into commands, which can control devices such as prosthetic limbs, computers, or even robotic systems.

One of the primary applications of BCI technology is in assistive devices for individuals with disabilities. People who have lost motor function due to spinal cord injuries, stroke, or neurodegenerative diseases like ALS can regain a degree of independence by controlling a robotic arm or typing on a computer simply by thinking about the movement or action. For instance, BCIs have enabled paralyzed patients to communicate and interact with their surroundings, restoring basic functionalities that were lost due to injury or illness.

Beyond restoring motor functions, BCIs are being explored for cognitive enhancement and rehabilitation. Researchers are developing neurofeedback systems that allow users to enhance cognitive functions such as attention, memory, and learning by monitoring and adjusting brain activity in real time. These systems could provide therapeutic interventions for conditions such as ADHD or depression, helping patients regulate their own brain activity for improved mental health. Another exciting area of BCI research involves neuroprosthetics, where the technology is used to create artificial devices that substitute lost sensory or motor functions. For example, BCIs are being developed to restore vision or hearing by bypassing damaged neural pathways and directly stimulating the brain. In the future, BCIs might also enable advanced cognitive prosthetics, which could aid in memory recall or decision-making, offering profound implications for enhancing human capabilities.

The complexity of decoding neural signals accurately and consistently remains a significant hurdle. Neural activity is highly dynamic and varies from individual to individual, making it difficult for algorithms to interpret intentions with precision. Moreover, the long-term viability of implanted BCIs raises concerns about biocompatibility, infection risks, and the durability of the hardware.

Ethical considerations also arise as BCIs become more advanced. Questions about autonomy, privacy, and security are at the forefront of the discussion. Since BCIs have access to brain data, there are concerns about potential misuse, including unauthorized control or influence over a person's thoughts and actions. Despite these challenges, the future of BCIs is promising. As technology advances and our understanding of the brain deepens, BCIs could revolutionize healthcare, offering new ways to treat neurological disorders, enhance cognitive performance, and enable new forms of human-computer interaction. From restoring basic motor functions to opening doors for cognitive enhancement, BCIs represent a significant step toward integrating technology with the human mind, potentially transforming lives in ways once thought impossible.

Dr. Ciyamala Kushbu S
Asst. professor, ISE