

TECH BYTES SEPTEMBER 2023



DEPARTMENT OF
COMPUTER SCIENCE
AND ENGINEERING

CMR INSTITUTE OF TECHNOLOGY

#132 | ACES Layout | IT Park Road | Bengaluru | 560037 | India

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Vision

To be a center of excellence in computer science and engineering education producing competent professional for a successful global career contributing to the society.



Dr. Sanjay Jain
(Principal)



Dr. B. Narasimha Murthy
(Vice Principal)

Mission

- To build a faculty with industry and academic exposure, capable of molding students into competent professionals, supported by adequate computing and software resources.
- To prepare the students for global career in computing by enriching the curriculum.
- To develop industry relevant programming and soft skills through training programs, vibrant student clubs and student internship.
- To engage with industry and institutes of repute to collaborate in academics, research and development involving faculty and students.

• Editorial Note:

It gives me great pleasure to bring you this issue of the Tech-Bytes bi-annual Newsletter of the department of Computer Science and Engineering. The department of CSE always strives to improvise something new in its academic activities throughout the year. Every edition of the department newsletter highlights all department activities and achievements. I would like to thank each and every faculty coordinator from the department for their timely reports on various events conducted in the department. My profound sense of gratitude to the department in giving me an opportunity in editing this newsletter.



Manjula Subramaniam
Assistant Professor

ABOUT THE DEPARTMENT

The department of Computer Science & Engineering has been in existence from the inception of CMRIT in 2000. The department is a recognized research center under VTU and offers doctoral programs in computer science and Engineering. The Department of Computer Science and Engineering is permanently affiliated to Visvesvaraya Technological University (VTU), Belgaum and is also recognized by Govt of Karnataka and approved by AICTE, New Delhi. UG program is approved by National Board of Accreditation (NBA), New Delhi. The department aims to provide students with a strong foundation in Computer Science and enable them to integrate their knowledge with other disciplines for carrying out innovative discoveries. Many Of the computer science graduates from CMRIT step directly into computer related career positions in both private and government agencies, while some choose to continue their education in graduate degree programs.



MESSAGE FROM HOD

Dr. Shreekanth Prabhu
HOD, CSE

Dear Stakeholders,

It is an immense pleasure to present this bi-annual newsletter “Tech-Bytes” September 2023. issue. The Department of Computer Science and Engineering is actively involved in academic and research work in current areas of Computer Science and Engineering and multi-disciplinary streams. The faculty members of department have high academic and research credentials and are cordial, providing a very conducive academic environment. To bridge the academic industry, gap the department provides industry-based curriculum and practice blended pedagogy across for effective teaching and learning. The startup ecosystem in the department inspires faculty and students to turn their ideas into profitable ventures. The department is fortunate to have dedicated teachers, devoted students and committed supportive staff and experts teaching staff. I congratulate my students for participating in various technical events, extracurricular activities, research work and competitive exams. My best wishes to all for their bright career and successful life.

TECHNICAL TALK

SrNo	Faculty Name	Title	Date
1	Mrs. Sreedevi N	Neuromorphic Architecture and Applications	02/03/23
2	Mr. Pratham Majumder	Energy efficient and secure communication in wireless network	16/03/23
3	Mrs. Sagarika Behera	Demonstration of Lex and Yaac Tool	23/03/23
4	Dr. Jayanthi N	Introduction IoT Fundamentals	29/03/23
5	Mrs. Savitha NJ	Demonstration of Java Applets and Swings	05/04/23
6	Mrs. Smitha N	Demonstration of working with pdf, word and JSON files using Python	06/04/23
7	Mrs. J Suneetha	Generative adversarial network(GAN)Model	13/04/23
8	Mr. Kartheek G.C. R	Tinkercad for IOT simulation	20/4/23
9	Mr. Anil D	JavaScript Everywhere: An one stop solutions for all applications	26/04/23
10	Mrs. Navaneetha M	E-Waste Management	07/06/23
11	Dr. R Kesavamoorthy	Non-Fungible Tokens (NFTS)	08/06/23
12	Mrs.Manjula Subramaniam	Predictive Analysis in Food Industry	14/06/23
13	Mr.Shivraj Veerappa Banakar	Demonstration of O-Auth and OpenID connect	15/06/23
14	Mrs. Paramita Mitra	Foundation of Edge and cloud computing	21/06/23

15	Mrs. Rajni Tiwari	Scaling web Applications with Servlet and JSP	22/06/23
16	Mrs. Debasmita Mishra	SEM: Stacking Ensemble Metal Learning for IoT Security Framework	29/6/23
17	Dr. P. N Singh	Is Magic Square an AI Problem?	17/8/23
18	Dr. V. N Manju	Demystifying Recommendation System and Exploring Research Insights	07/09/23
19	Mrs. Poonam Vijay Tijare	Social Network Analysis	31/8/23
20	Dr. Vijayalakshmi	Large Language Models	3/8/23
21	Mrs. Ann Mathew	Enterprise Artificial Intelligence	10/8/23
22	Mrs. Nidhi	A Light-Weight and Energy-Efficient Sinkhole Detection Mechanism for RPL in Large-Scale IoT Networks	24/8/23
23	Mrs. Lyshna Pratheeba	Haptic Technology: The Future of Engagement?	14/9/23
24	Dr. Debasmita Mishra	Intelligent System Design for IoT Security Framework using Machine Learning.	26/8/23
25	Dr. Guruvammal S	Autism Rehabilitation for Augmenting Childhood Social and Emotional Intelligence.	07/09/23

FOSS CELL ACTIVITIES

SRNO	STUDENT NAME	TYPE OF PROGRAM	DURATION	MENTOR NAME
1	Mr. Rijuth Menon R	Google Summer of Code (GSoC)2023	3months	Dr. Shanthi
2	Mr. Amartya Nambiar	Google Summer of Code (GSoC)2023	3months	Dr. Shanthi



**HEARTY
CONGRAT
ULATIONS.**

SrNo	Event Name	No of Participant	Date of Conduction	Event Organized By
1	Good First Bug	70	24/06/2023	Dr. Shanti
2	Project Designed and posted on Github	50	26/08/2023	Dr. Shanti

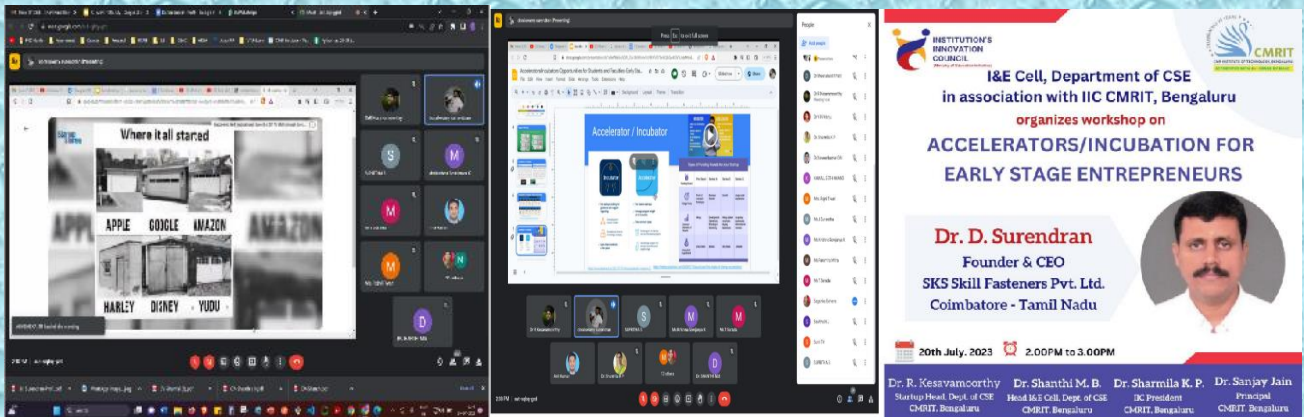
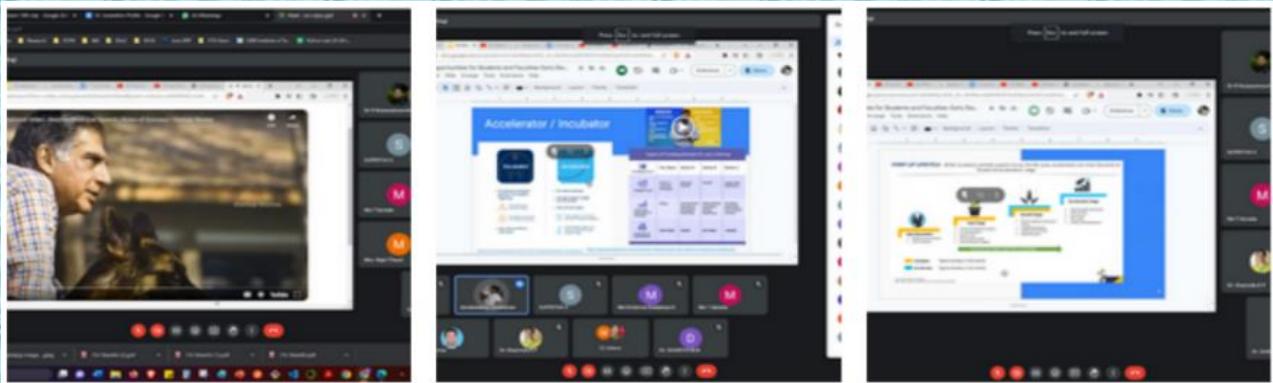




Innovation and Entrepreneurship CELL

SrNo	Resource Person Name	Designation	No. of Participants (Students, faculty)	Date of Event	Duration
1	Dr. D Suredran	Associate Professo	31	20/07/2023	60minutes

Events Pictures





I&E Cell, Department of CSE
in association with IIC CMRIT, Bengaluru
organizes workshop on
**ACCELERATORS/INCUBATION FOR
EARLY STAGE ENTREPRENEURS**

Dr. D. Suredran
Founder & CEO
SKS Skill Fasteners Pvt. Ltd.
Coimbatore - Tamil Nadu



20th July, 2023 2.00PM to 3.00PM

Dr. R. Kesavamcoorthy Startup Head, Dept. of CSE CMRIT, Bengaluru | Dr. Shanthi M. B. Head I&E Cell, Dept. of CSE CMRIT, Bengaluru | Dr. Sharmila K. P. IIC President CMRIT, Bengaluru | Dr. Sanjay Jain Principal CMRIT, Bengaluru

FACULTY ACHIEVEMENTS

FACULTY NAME: Dr R KESAVAMOORTHY



WORK DONE:

- Selected for Project Grant of 12.75 Lakhs from MSME through MSME Champions Scheme – Idea Hackathon 2.0, for the project titled “Providing Game Accessibility to Disabled People and Enabling Physical Activities in Computer / Mobile Games through Gestures.”
- Consultancy Project for “Asmakam Ayurveda” is completed with 31,015/- received from the client



- Used Story Telling as an innovative pedagogy for teaching the concepts of Memory Management in the subject Operating Systems

CENTER OF EXCELLENCE

Centre of Excellence-Machine Intelligence and Big Data

Date of Conduction: June-Aug 2023

Topic: "Technical Debate competition"

The number of registered teams was 10, out of which 5 teams participated in the competition. The event was conducted offline where each team was given 5 minutes to present the motion or oppose it as per their choice. After presenting of the point of view all the teams were given an opportunity to cross question one other team of their choice.

Winners

PLACE	NAME	SEM	DEPARTMENT
1 st Place	A Anirudh	4	CSE
	Gaurav Pandey	4	ISE
2 nd Place	Deepak	4	CSE
	Avaneesh	4	CSE
2 nd Place	Bhaavan Prabhakar	2	CSE
	Ashwin Jose Thomas	2	CSE

Winners



Winners

Runner-Up

PATENTS FILED /PUBLISHED BY FACULTY

SRNO	FACULTY NAME	TYPE OF INVENTION	FILED/ PUBLISHED
1	Dr Shanthi	A Process Automation for Generating invoices for Daily Services	Published
		Writing Apparatus for Deaf-Blind Dual Joystick	
		Secure Doorbell System with QR Code	
2	Dr N Jayanthi	Hybrid Smart Devices for Diabetic Monitoring	Filed
3	Dr Kavitha P	Targeted Irrigation Adaptor Using Object Detection with Electric Vehicle and Method thereof	Filed
4	Prof Paramita Mitra	Smart Clock in the field of IoT	Filed
5	Prof Anil	Low-Cost LORA BASED IOT Enabled Real Time Landslide Monitoring System	Published
6	Poonam Vijay TIJARE and Sagarika Behera	AN INTEGRATED DEVICE WITH SUN SHADES AND SOLAR CHARGER MODULE FOR WINDOWS	Published
7	Dr. Sanchari Saha	A Secret Message Communication System for Soldiers.	Published
8	Dr Kesavamoorthy Dr Raja	Machine Learning and Deep Learning based Intelligent Auto Directed Camera for Surveillance	Filed
		Intelligent CCTV Cameras for Residential Area Monitoring	
		Cash Withdrawal Using QR Code from The Mobile Phone in ATM Machine	
9	ProfKarthek G C R	A Smart System and Method for Automatic Signaling for Bicycle Riders.	Filed

AWARDS AND ACHIEVEMENTS in MOOC courses (NPTEL)

SRNO	Faculty Name	Course Name	Duration	Award
1	Prof. Sagarika Behera	"Introduction to Automata, Languages and Computation"	12 weeks	Elite + Gold Award
2	Prof.Savitha N J	"Programming in JAVA"	12 weeks	Elite + Silver Award
3	Prof.Krishna Sowjanya K	"Problem Solving through Programming"	12 weeks	Elite + Silver Award
4	Dr. V N Manju	"Problem Solving through Programming"	12 weeks	Elite + Silver Award
5	Prof.Rajni Tiwari	"Programming in JAVA"	12 weeks	Elite + Silver Award
6	Prof.Paramitra Mitra	"Foundation of cloud IoT Edge ML"	8 weeks	Elite + Silver Award
7	Dr. N Jayanthi	"Internet of Things"	12 weeks	Elite + Silver Award

CLUB ACTIVITIES



ACE CLUB PRESENTS...

CODE BUSTER

"MAKE IT WORK, MAKE IT RIGHT, MAKE IT FAST"

19.04.2023
LH 506
3PM

FOR MORE DETAILS CONTACT:
PRAGATI PANDAY: 9538978036
HALEEMA SADIA: 91435126



Code Fuzz

DATE: 18/05/2023
TIME: 3-4 PM
VENUE: LH 505

CONTACT:
HARINI 8073267419
MANISHA 9606746147



TEST YOUR APTITUDE

ACE Club presents, 'Test Your Aptitude', on 28th July 2023. Join us, crack this test, and win certificates.

DATE:
28th July 2023

TIME:
2-3 pm

HALEEMA SADIA
91435126

PRAGATI PANDEY
9538978036

VENUE:
LH504



GEEKS FOR GEEKS
CMRIT
PRESENTS

CODECRYPT

28/06/2023

VENUE: LH503

TIME: 10:30-11:30

CONTACT: 7667963240 (JYOTSNA)



DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

MINDSPARK PRESENTS

PUZZLE QUEST

VENUE: LH506
TIME: 2:00pm to 3:00pm
DATE: 20/07/2023

EVENT COORDINATORS:
RENJU SREEJITH 7294172
TEJASWINI 7009577200



DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

MINDSPARK PRESENTS

CHEAT CODE

GOOD AT PROMPTING?

EVENT COORDINATORS:
SARVI SHARMA
HARIT, BHASKAR

CLUB ACTIVITIES WORKSHOP

 <p>Git And GitHub Workshop</p> <p>Date: 18 May 2023 Time: 3:00-4:15 PM Venue: LH 504 CSE Contact: Ankur (8517011855)</p>	 <p>Git And GitHub OpenSource Contributions</p> <p>Date: 22 June 2023 Thursday Time: 2:00-3:30 PM Venue: LH 505 CSE Contact: Ankur (8517011855)</p>	 <p>Git And GitHub Intro To Version Control</p> <p>Date: 21 June 2023 Wednesday Time: 3:00-4:00 PM Venue: LH 505 CSE Contact: Ankur (8517011855)</p>
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Debug The Bug

Date: 20 April 2023
Time: 3:00 PM
Venue: LH 504

For more info contact: Ayush Gupta (9836638968)



TECHGRILL
A FUN QUIZ EVENT

CONTACT:
HARINI E: 8073267419
MANISHA: 9606746147

VENUE: CSE LH504
DATE: 28TH JUNE, WEDNESDAY
TIME: 2:00 - 2:45 PM



QUIZTOPHER COLUMBUS
AN EXCITING QUIZ EVENT

CONTACT:
HARINI: 8073267419
MANISHA: 9606746147

DATE: 21ST JUNE, 2023
VENUE: LH-504, CSE
TIME: 3-4 PM

FACULTY DEVELOPMENT PROGRAM ORGANIZED IN CMRIT

SrNo	Topic	Resource Person	Date	Venue	No of Participants
1	One Day FDP on “Internet of things and its applications”	Dr. Shreenivas Shetty, BNMIT	20/04/2023	CSE Department, CMRIT	15
2	“2 Day workshop on Paper Writing using Latex”	Prof Pratham Majumder	31/03/2023-01/04/2023	CSE Department, CMRIT	45
3	“5 Day Faculty Development Program on Drones and Autonomous Systems”	Dr. Radhakrishnan G	02/05/2023-06/05/2023	ECE Department, CMRIT	60



ESP8266 KITS used for Hands-on Session



FACULTY PUBLICATION

SrNo	Faculty Name	Title	Publisher Name
1	Dr. Paras Nath Singh with Poonam Vijay Tijare	A Comparison of the Effectiveness of Dominant ML Algorithms for Predicting the Prognosis of Brain Tumors	IEEE
2	Dr. Paras Nath Singh with Navaneetha M.	"Sankshepan" - Summarizing Kannada text using BART Transformer	Springure Nature conference
3	Prof.Savitha N J	Block chain Integrated Optimized e-Commerce Business Process Model	IEEE Conference
4	Prof.Savitha N J	Deep Learning-based Damage Detection and Repair Cost Estimation for Automobiles	International Journal of Innovative Science and Research Technology
5	Prof.Smitha N	Hybrid Recommendation System and Social Media Integration	IEEE Conference
6	Prof.Smitha N	Early Prediction of Sepsis using ML Algorithms on Clinical Data.	IEEE Conference
7	Dr. Paras Nath Singh	"Hastabhashya"-Interpretation of Indian Sign Language using SqueezeNet and YoloV3	IEEE XPlore (ETNCC 2023-Namibia)
8	Dr. Sanchari Saha	Crash Recovery and Accident Prediction Using a IoT Based Black Box System	IEEE xplore
9	ProfPratam Majumder	Lossless Energy Efficient communication of Temporally correlated Data using silent symbol-based communication	20 th IEEE International conference on Mobile Ad Hoc and Smart System Toronto, Canada 2023

10	Prof.Pratham Majumder	Optimizing Task Distribution System .A comparative study of Microtask Job Replication, Accuracy and Budget Constraint	IEEE International conference on Network, Multimedia and Information Technology ,NITTE Meenakshi Institute of Technology ,Bengaluru India 2023
11	Prof.Pratham Majumder	Non-Invasive Dietary Monitoring system using chewing sounds.	Intelligence Conference on Security, Surveillance and Artificial Intelligence, Kolkata 2023
12	Prof.Pratham Majumder	Non-Invasive Dietary Monitoring system using chewing sounds. A Machine Learning Approach	100 th AKC, PH.D. Symposium, University of Calcutta, India 2023.
13	Dr R KesavaMoorthy	Evolution of Blockchain and Smart Contracts: A State-of-the-Art Review"	Presented in the IEEE conference
14	Prof Sagarika Behera	Text Classification using Machine Learning Algorithm on Encrypted Data	International Conferences of IEEE Connect 2023
15	Prof Sagarika Behera	Suggestion of Appropriate Crop Based on Rainfall and Underground Water Analysis	3 rd International Conferences on Intelligent Technologies IEEE Conference 2023 .
16	Dr Sanchari Saha	Cluster Based Protocol for Prioritized Message Communication in VANET	IEEE Access Journal
17	Dr Paras Nath Singh	Voice Cloning AI Right to Identify Is Under Threat	IEEE International Conference on Multidisciplinary Research in Technology and Management.

Hearty Congratulations to the Faculty for successfully Completing
Doctorate of Philosophy of Science

Srno	Faculty Name	Area of Research	University Name
1	Dr Debasmitha Mishra	Machine Learning, IoT	Veer Surendra Sai University of Technology, Burla, Odisha
2	Dr Guruvammal S	DeepLearning	Anna University, Chennai



Dr Debasmitha Mishra



Dr Guruvammal S

AWARDS AND ACHIEVEMENTS

SrNo	Faculty Name	Event Name	Awards and Achievements	University Name /Venue	Research Area/Topic presented
1	Dr. Sanchari Saha	IEEE International Conference on Data Science and Network Security	Best Paper Presenter	Kalpataru Institute Of Technology, Tiptur, Karnataka	Energy Conservation in Wireless Body Area Network Using Optimal Route Selection and Node Configuration
2	Sagarika Behera	3 rd International Conferences on Intelligent Technologies IEEE Conference 2023	Project Proposal selected by KSCST	Awarded at CMRIT for selection of project proposal by KSCST	Suggestion of Appropriate Crop Based on Rainfall and Underground Water Analysis



Dr .Sanchari Saha



Prof Sagarika Behera

FACULTY SERVED AS RESOURCE PERSON

SrNo	Faculty Name	Event Name	Awards and Achievements	University Name
1	Dr. Sanchari Saha	AICTE Sponsored IEEE International Conference on Networks, Multimedia and Information Technology (NMITCON)	Reviewer	Nitte Meenakshi Institute of Technology, Bangalore
2	Dr. Paras Nath Singh	Appreciation award for NEAT 3.0 Projects Independent Reviewer	Reviewer Expert Evaluator of NEAT Projects	AICTE-MoE
4	Dr. Paras Nath Singh	Final Year Projects	Reviewer	New Horizon
5	Prof Pratam Majumdar	IEEE International Conference on Network ,Multimedia and Information Technology (NMITCON-2023)	Reviewer	Nitte Meenakshi Institute of Technology, Bangalore
7	Dr R Kesavamoorthy	Value Propositions in Business Model Canvas	Guest Lecture	CMRUniversity, OMBR Campus, during March 2023.
8	Dr R Kesavamoorthy	Business Model Canvas – Value Proposition	Guest Lecture	2Days Entrepreneurship Boot Camp organized by CMRIT Incubation Centre on 17th and 18th May 2023.
9	Dr R Kesavamoorthy	Design Thinking Workshop	Guest Lecture	St. Francis College, Koramangala on 2nd August 2023.

10	Dr. ParasNath Singh	Deep Learning in Python	Guest Lecture	Christ University on 4/09/23
11	Mr. Praveen V Mr. Ajay Ganapule	Cyber Security Training by TCS	04/05/23, 06/05/23, 13/05/23 18/05/23	CMRIT
12	Dr. Radhakrishnan G	Paper Writing Workshop converting Projects to Papers.	31/03/23- 1/4/23	CMRIT
13	Dr. Sanchari Saha	Structuring of the Paper Writing Workshop converting Projects to Papers	31/03/23- 1/4/23	CMRIT
14	Dr. Shreekanth M Prabhu	Writing Abstract and Introduction on Paper Writing Workshop converting Projects to Papers.	31/03/23- 1/4/23	CMRIT
15	Sajana Rathi	Technical Talk	Founder of CyberDiplomat LLC, USA	29/04/2023



Cyber Security Training By TCS

Faculty Attended Workshops/STP/FDP

SrNo	Faculty Name	Event Name	Organized by	Date
1	Dr P. Kavitha	“16-day International Online Faculty Development Program on Teaching, Learning and assessing in 2030”	SRM, Department of Physics, Ramapuram, Chennai	6th June - 23rd June, 2023.
2	Prof Manjula Subramaniam	“Fundamentals of Data Science and Analytics”	AICTE -VTU Joint Training Program	05th - 09th June 2023
3	Ms Nidhi Sinha	“5 Days Workshop on LateX for Manuscript Writing”	National Institute of Technology, Jamshedpur	3 rd July to 7 th July 2023
4	Ms Nidhi Sinha	“One Week Online Short-Term Course on Machine Learning and its Application into IoT, Cloud Vision and cloud computing (MICC-2023)”	National Institute of Technology, Jamshedpur	July 10 th -14 th , 2023
5	Dr Paras Nath Singh	“Introduction to Python Programming and Application”	AICTE -VTU Joint Training Program	19 th - 23 June, 2023
6	Prof.Rajni Tiwari	“Introduction to Python Programming and Applications”	AICTE -VTU Joint Training Program	13 th -17 th March, 2023
7	Prof.Rajni Tiwari	“Introduction to Web Programming	AICTE -VTU Joint Training Program	27 th -31 st March ,2023
8	Prof Manjula Subramaniam	“5-day Online FDP on the theme “Inculcating Universal Human Values in Technical Education”	AICTE	6 th to 10 th March 2023.
9	Prof Debasmita Mishra	“5-day Online FDP on the Concepts, Applications, Trends and commercialization on IoT”	Amity University, Kolkata	17 th July-21 st July 2023

LECTURE NOTES

SRNO	Faculty Name	Lecture Notes	Publisher Name
1	Prof Sreedevi N	Lecture Notes in Networks and Systems book series (LNNS, volume 565)	Springer

Book Chapters

SRNO	Faculty Name	Lecture Notes	Publisher Name
1	Preethi S H Darius, Krishna Sowjanya, Manju V N, Sanchari Saha, Paramita Mitra, Pratham Majumder, Suneetha J, Shreekanth M Prabhu	Book Chapter: From Data to Insights: A Review of cloud-based big data tools and technologies <u>HU</u>	Book titled "Big Data Computing: Advances in Technologies, Methodologies, and Applications", for the Book Series "Computational Intelligence Techniques", to be published by Taylor and Francis publisher
2	Dr R Kesavamoorthy	Detection of Online Sexual Predatory Chats Using Deep Learning"	IEEE Xplore and Taylor & Francis Group, which was initially published by River Publishers.

FACULTY ACHIEVER: AWARDS AND ACHIEVEMENTS

SRNO	FACULTY NAME	AWARD
1	Dr V.N Manju	Outstanding performance at conducting Institute -level-Tie Your Laces(TYL)
2	Prof Krishna Sowjanya K	Great Performance in accomplishing academic and non-academic duties.
3	Prof Anil	Great Performance in accomplishing in teaching a course "Web Technology and its Applications"
4	Prof Sridevi N	Outstanding Performance in coordinating FDP and conducting Training sessions for academic year 2022-2023
5	Mr. Praveen D	Recognized for dedicated and great performance in carrying out Department office Executive (DOE) work.



STUDENT MINI PROJECT EXHIBITION

SrNo	USN	NAME	TEAM NO	TITLE	GUIDE	RFMARKS
1	1CR21CS021	Akshita	10	Question Paper	Prof Savitha NJ	1 st Place
2	1CR21CS061	Devesh Bardia				
3	1CR21CS056	Deekshita M	73	Keylogger	Dr.Shanti MB	2 nd Place
4	1CR21CS156	S Yuktha				
5	1CR21CS116	Nilesh Kumar	54	Data Entry Job Automation	Prof Smitha N	3 rd Place
6	1CR21CS103	Mohammad Afzal				
7	1CR21CS083	Kritika				
8	1CR21CS100	Mekhala Bekal	5	Game development: Gesture Based games	Dr Kesava Moorthy R	3 rd Place

Table:Semester 4 Students Participated and Prize Winners Details



MINI Project Certificate Distribution

ISTE EVENT CHAPTER TECHNICAL SEMINAR



STUDENTS AWARDS AND ACHIEVEMENT

DEPARTMENT COMPUTER SCIENCE AND ENGINEERING

Category: Sports

SRNO	USN	STUDENT NAME	SPORTS	PLACE	EVENTLEVEL
1	1CR21CS203	Mr. Anantharaman	Table Tennis	First Prize	Table Tennis - Ignite '23 CMRIT Interdepartmental Sports fest
	1CR21CS204	Mr. Vaishnav Sudheer			
	1CR21CS019	Mr. Akarsh Kumar			
	1CR20CS171	Mr. SANTOSH CHAND			
2	1CR20CS105	Ms.M Mamathy	Karate	First Place	National Open Karate Championship 2023 First Place - Black Belt
3	1CR21CS185	Ms. Srivarsha M	Running Race(Marathon)	Third Prize	Marathon of 2 km Conducted on Sports Day at CMRIT on 29th August 2023
4	1CR20CS060	Mr.Faraz Ahmed	Hockey	Silver Medal	VTU Hockey Cental Zone Silver Medal
5	1CR21CS137	Mr. Preetesh R Shetty	Football	Winners	Inter department Football competition 2023
6	1CR21CS169	Ms. Shivani T R	Running Race (MARATHON)	Silver Medal	Marathon of 2 km Conducted on Sports Day at CMRIT on 29th August 2023
7	1CR21CS169	Ms. Shivani T R	Kabaddi	Second Prize	Interdepartmental Sports conducted at CMRIT on 20 June 2023
	1CR21CS087	Lekha Reddy D			
	1CR21CS077	Ms Keethana L			
	1CR21CS125	Ms. Piddaparthi Harshitha			
	1CR21CS218	Ms.Shreeraksha M Rao			

	1CR20CS023	Ms.Anjali Kumari			
	1CR21CS134	Ms. Pravalika Gorremuchu			
8	1CR20CS100	L Srushti Hunalli	Kho-Kho and Football	Third	VTU State Level Inter collegiate Competition
9	1CR19CS043	Devadathan Menon	Football	First	State Level Inter collegiate competition

CERTIFICATES



VTU BANGALORE CENTRAL DIVISION HOCKEY (MEN) TOURNAMENT
ORGANIZED BY CMRIT, BANGALORE FROM 10TH TO 11TH NOVEMBER 2022



Congratulation to the Winners

STUDENTS AWARDS AND ACHIEVEMENT

DEPARTMENT COMPUTER SCIENCE AND ENGINEERING

Category: Manathan/Summer Internship

USN	StudentName	Company/ Competitio n	Details of competition
1CR20CS157	Rijuth Menon R	Google	Google Summer of Code (GSoC'23)
1CR20CS157	Rijuth Menon R	Microsoft	Microsoft Learn Student Ambassador (MLSA)
1CR20CS157	Rijuth Menon R	FKCCI MANTHAN- 2023	Selected by Jury members for "Final Round for Type Sense"
1CR21CS012	Adithya Raj	FKCCI MANTHAN- 2023	FKCCI MANTHAN- 2023 Project Name:Triplan



Congratulations to MANTHAN -2023

STUDENTS STARTUP

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Srno	USN	Student Name	Name of the Project
1	1CR20CS060	Faraz Ahmed	Dealway Retail Solutions Pvt Ltd
2	1CR21CS064	Dheeraj	AXERA

Student Paper Publication

SrNo	Paper Presented	Title	Presented by
1	International Conferences of IEEE Connect 2023	Text Classification using Machine Learning Algorithm on Encrypted Data	Nikhita Kolipakula P Swetha M Yogish
2	3 rd International Conferences on Intelligent Technologies IEEE Conference 2023	Suggestion of Appropriate Crop Based on Rainfall and Underground Water Analysis	DEVADATHAN Menon Gayathri V Shenoy Josephine Meghana Suresh
3	3 rd International Conferences on Emerging Trends in Networks And Computer Communication	Sign Language Interpreter	Adithya .A, Tharun Kumar R Deeksha DV

STUDENT PLACEMENT

SrNo	Name	USN	Salary	Company Name
1	Aayush Dubey	1CR19CS003	12	Cloud9
2	Abhigyan	1CR19CS004	16	PhonePe
3	Adithya Anbazhagan	1CR19CS009	12.7	Axa XL
4	Motapothula Devendra Venkatnadh	1CR19CS097	16	PhonePe
5	Mridul Iyer	1CR19CS098	16	PhonePe
6	Sreya Talasila	1CR19CS167	12.7	Axa XL
7	Rayyan Aslam	1CR20CS155	9.25	Epicor
8	Madakari Nayaka H M	1CR20CS107	8.6	Ellucian
9	Siddhant Anand	1CR20CS184	8.6	Ellucian
10	Swati	1CR20CS199	8.6	Ellucian
11	Varsha S Kalagudi	1CR20CS221	8.6	Ellucian
12	Aaron Jacob	1CR20CS002	8	Epsilon
13	Bharti Pragya	1CR20CS039	8	Epsilon
14	Dudekula Sameena	1CR20CS058	8	Epsilon
15	Haleema Sadia	1CR20CS071	8	Epsilon
16	Sayan Basu	1CR20CS175	9.25	Epicor
17	Ayush Gupta	1CR200CS035	29	ZenKen Corp
18	Harshendu Mahto	1CR21CS077	8	Epsilon
19	Jiya Kumari	1CR21CS088	8	Epsilon
20	Ramu CN	1CR21CS152	8	Epsilon
21	Shivam Kumar	1CR21CS178	7.1	Surya Software

ARTICLE

Technologies for Managing Cardiovascular Disease

(Source: www.acc.org, www.narayanahealth.org, www.ncbi.nlm.nih.gov)

Cardiovascular illnesses account for around 35% of all global deaths each year. According to the World Health Organization (WHO), stroke and ischemic heart disease account for over 17.7 million deaths in India alone. This count includes a sizable number of younger people. Smoking, excessive alcohol use, a poor diet, or a sedentary lifestyle can all contribute to hypertension, diabetes, and obesity, all of which can manifest as heart attacks, heart failure, or strokes.

- **Artificial intelligence (AI)** is a cutting-edge technology that allows vast volumes of data to be fed into algorithms, which subsequently assist doctors in making the best decisions about their patients' health. Before the cardiologist begins to read the case, next generation cardiac ultrasound devices have begun to incorporate AI to automatically recognize the anatosegment it, label it, find the ideal echo views, and do automatic measurements.
- **Big data** is another technology that can be used to diagnose and predict cardiovascular problems. In the near future, clinicians will have access to complicated databases into which particular patient variables can be entered to calculate the chance of that patient having a cardiovascular illness with greater than 80% confidence.
- **Blockchain** technology is steadily gaining traction in cardiovascular healthcare after demonstrating its efficiency in a variety of industries ranging from finance to real estate and supply chain. Smart contracts are a computer technology that is used to keep patient details in a digital ledger. To record patient data, health providers presently employ numerous electronic health record (EHR) platforms. Blockchain technology is also being used to encourage healthy behaviour among heart disease patients.
- **Amazon's Alexa** is a voice-enabled device that is already making significant progress in improving health outcomes for heart disease patients. This gizmo with smart speakers can identify if a patient is undergoing a cardiac arrest by listening to their respiration, and it is 97% accurate.
- **Chatbots** are AI messaging programmes that elicit information from users and offer answers based on user input. Doctors should investigate chatbot solutions that may be best integrated with their existing technology and use them to collect crucial information for treating patients suffering from cardiovascular ailments.
- **Gamified mobile apps** are mobile health applications that encourage patients to improve modifiable risk factors and lower cardiovascular risk-factor profiles.
- **Robots** in catheterization labs enable for remote control manipulation of catheters for angioplasty, removing the operator from the radiation zone. It will be more useful for more intricate and lengthy treatments.

Cardiovascular disease prevention and management remain critical focal areas for physicians and researchers in the connected health environment. Exciting progress has been made, but studies continue to suffer from small sample sizes and poor follow-up. Efforts that integrate home patient monitoring, interaction, and personalised feedback are the most promising. Ultimately, merging patient-level ambulatory sensor data, electronic health records, and genetics with machine learning analytics will bring precision medicine closer to reality.

Dr. Sanchari Saha

Article



From,
Savitha N J,
Smitha N,
Dr. Sanchari Saha.

Title: Fostering Entrepreneurship: Bridging the Gap from Academia to Corporate Leadership

Introduction:

Buckle up, folks, because you're about to hear the wild tale of how a regular assistant professor like us turned into an Entrepreneur !!! Picture this: a teacher with big dreams and an even bigger appetite for risk. This is the story of our journey - a journey filled with more twists and turns than a rollercoaster.

Chapter 1: "The 4T load"

So there we were, in the middle of preparing for the upcoming lecture, we were called by the Head of the Department to assign a new assignment with a team of 4-5 members, which was to start a "Startup". In this chapter, we'll dive into the genesis of our genius plan.

Chapter 2: Balancing Act: Teacher by Day, Founder by Night

Ever tried juggling flaming torches while riding a unicycle? Well, that's how managing a startup alongside teaching felt! This chapter spills the beans on the chaos of balancing lectures, exams, and monthly meetings without losing our minds - or our favorite red pen.

Chapter 3: Professor to Fortune Teller: The Leap of Faith

"We can predict student questions before they even ask - surely, We can predict startup success too!" Ah, the overconfidence that led us to trade our cozy academic office for the risky realm of entrepreneurship. Tune in to learn how we went from tweed jackets to pitch presentations!

Chapter 4: Startup Safari: Navigating the Jungle

Venturing into the startup jungle was like meeting the eccentric creatures of entrepreneurship. From finding team members to the chatty networking gurus. Chapter 4 is all about surviving the wild ride of events, workshops, and meetups.

Chapter 5: A Comedy of Errors: Overcoming the "Oops" Course

Ever heard of the "Oops" course? It's where you stumble, fall, and trip your way through the startup world. Get ready for hilarious tales of coding mishaps, and marketing blunders. The moral? Laughter is the best startup medicine!

Chapter 6: Cheers to Mini Wins and Major Fails

Who needs Oscars when you can celebrate the first product prototype and the countless "Ah-ha!" moments in your startup journey? From tiny victories to epic faceplants, this chapter is a toast to all the ups, downs, and sideways twirls that come with startup life.

Chapter 7: Lessons We Got the Hard Way

Ladies and gentlemen, grab your notebooks because it's time for the final exam - lessons from the school of hard knocks! We share the wisdom we gained through trial, and error and a sprinkle of pure luck.

Conclusion:

And there you have it, folks - Our whirlwind journey from educator to entrepreneur, sprinkled with a dash of humor and a generous sprinkle of life's quirks. Through the laughter, the mess-ups, and the aha moments, one thing's for sure: Life is one unpredictable, exhilarating adventure, whether you're in a classroom or a boardroom!



Thank You



PROGRAM OUTCOMES(POS):

PO1 Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.

PO2 Problem analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

PO3 Design/development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.

PO4 Conduct investigations of complex problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

PO5 Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.

PO6 The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.

PO7 Environment and sustainability: understand the impact of the professional engineering solutions in societal and environmental contexts, demonstrate the knowledge of, and need for sustainable development. PO8 Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

PO9 Individual and teamwork: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

PO10 Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

PO11 Project management and finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

PO12 Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life long learning in the broadest context of technological change.

PROGRAM EDUCATIONAL OUTCOMES(PEO's):

PEO1: To prepare graduates with a strong foundation in engineering, science and technology, and expose them to modern tools for a Successful career in industry, entrepreneurship and research.

PEO2: To produce graduates equipped with knowledge and skills required to analyze, design and develop system solutions for real world problems.

PEO3: To collaborate with industry and professional societies, to produce competent computer science professionals.

PEO4: To nurture communication and project management skills of graduates, for them to be good team players and leaders.

PEO5: To produce graduates who are ethical and socially responsible.

PEO6: To produce graduates who are innovative thinkers and life-long learners.

PROGRAM SPECIFIC OUTCOMES(PSOS):

PSO1: Design, implement and maintain business applications in a variety of languages using libraries and frameworks.

PSO2: Develop and simulate wired and wireless network protocols for various network applications using modern tools.

PSO3: Apply the knowledge of software and design of hardware to develop embedded systems for real world application

PSO4: Apply knowledge of web programming and design to develop web-based applications using database and other technologies