

INFO-RISES

VOLUME 5, ISSUE 3, OCTOBER 2021- MARCH 2022
DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING



CMR INSTITUTE OF TECHNOLOGY



DEPARTMENT OF
INFORMATION SCIENCE
&
ENGINEERING
INFO-RISES 2021-22 ODD
SEMESTER
VOLUME 4, ISSUE 2



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:

Mr. Harish L



MESSAGE FROM HOD

Indeed, it creates immense pleasure in writing this message which spreads positive vibrancy among all of us. CMR Institute of Technology conducts various activities for the benefit of students, faculty, and society. This newsletter is the epitome of the success stories of these events. These kinds of proud moments encourage the student's community to move to higher levels in Academia, Sports and other activities. We, the faculty of ISE strive to impart our best in terms of knowledge dissemination and bring out our students with a holistic personality. Our initiatives definitely mold the students such that they face the external world with prompt technical, interpersonal and problem-solving skills. I thank the faculty who are involved in this newsletter making for their real efforts. I appreciate all who did a great job of winning competitions and brought accolades to CMRIT. I wish all our students and faculty a stupendous success in upcoming activities!!!!

*- Dr. M. Farida Begam
HOD, Dept. of ISE*

CLUB ACTIVITIES



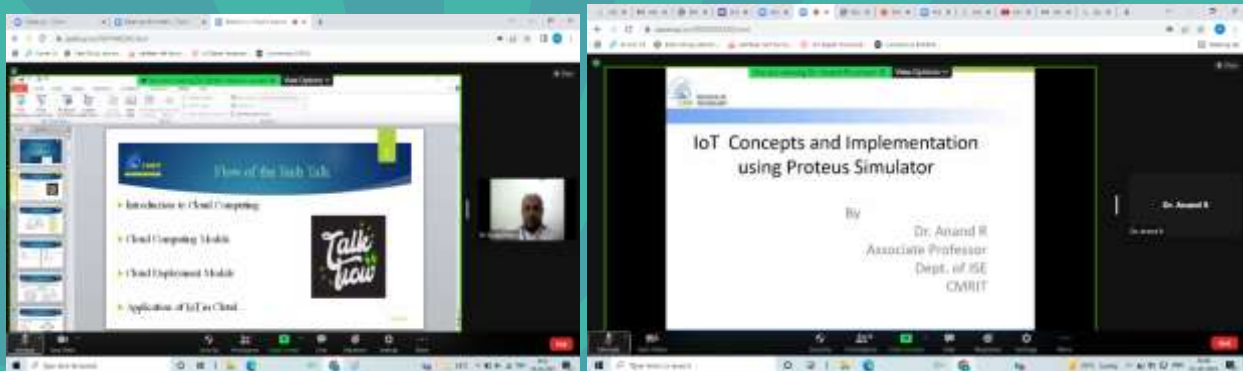
SL No	CLUB	EVENT	DATE
1	GOOGLE DSC	GIT Ready for Linux	09-10-2021
2	CODECHEF	Squid Quiz	20-10-2021
3	CODING NINJAS	Workshop on Rest API Design using Postman	28-10-2021
4	CODECHEF	Orientation	09-11-2021
5	CODING NINJAS	Workshop on Machine Learning and Artificial	25-11-2021
6	RISE	GoBzz	25-11-2021
7	CODECHEF	Workshop on DSA	09-12-2021
8	GOOGLE DSC	Android Study Jam Info Session	02-12-2021
9	CODECHEF	Brunch Time	05-12-2021
10	CODECHEF	Workshop on DSA and CP	12-12-2021
11	CODING NINJAS	The Technical Jeopardy	26-12-2021
12	GOOGLE DSC	Android Study Jam Info Session-2	29-12-2021
13	GOOGLE DSC	Android Study Jam Info Session-3	30-12-2021
14	GOOGLE DSC	Android Study Jam Info Session-4	03-01-2022
15	CODING NINJAS	WEBITOUT	09-01-2022
16	CODING NINJAS	Reverse Hackathon	09-02-2022

INDUSTRY CONNECT

STTP on **IoT and Applications** by Mr. Harish L, Asst. Prof, Dept. of ISE, Dr. J. Mannar Mannan, Assoc. Prof. Dept, of ISE and Mr. Saleem, Teaching Assistant, Dept. of ISE from December 27th to December 31st 2021.

Webinar on **IoT Implementation using Proteus Simulator** by Dr. Anand R, Associate Professor, Dept. of ISE, CMRIT, Bengaluru on Feb 23rd 2022.

Webinar on **Role of Cloud Computing in IoT** by Dr. Senthil Velan, Professor, Dept. of ISE, CMRIT, Bengaluru on March 28th 2022.



FACULTY TECH TALK

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

FACULTY	TOPIC
Mr. Abhisek Midya	A Myhill-Nerode Theorem for Register Automata and Symbolic Trace Languages
Dr. Ganesh	Robotic Process Automation
Dr. J. Mannar Mannan	Quantum Computing
Dr. Srividya R	Secure Data Mobility for MANET Routing Protocols using Authentication Techniques
Ms. Vyshali Rao	Secure Data in IoT using Lightweight ciphers
Mr. Harish L	An IoT based Smart Home Automation System

FACULTY PUBLICATIONS

Dr. S. Seetha has published a paper titled “Private and Secure Blockchain-based mechanism for an Online Voting System” in the 4th EAI International Conference on Big Data Innovation for Sustainable Cognitive Computing during Dec 2021.

Dr. Srividya. R. has published a paper titled “A Novel Image Encryption Optimization Technique” in the FABS 2021: International Conference on Forensics, Analytics, Big Data and Security during Dec 2021.

Dr. Sudhakar K. N. has published a paper titled “Priority based Trust Efficient Routing using Ant Colony Optimization for IoT-based Mobile Wireless Mesh Networks” in the International Journal of Intelligent Engineering and System Sep 2021.

Dr. Ganesh. D. R. has published a paper titled “Character Recognition Tamil Language in Printed Images using Convolutional Neural Network (CNN) analysis” in the 4th International Conference on Computing and Communication Technologies, ICCCT during Nov 2021.

Mr. Chithambarathanu M. has published a paper titled “Character Recognition Tamil Language in Printed Images using Convolutional Neural Network (CNN) analysis” in the 4th International Conference on Computing and Communication Technologies, ICCCT during Nov 2021.

Dr. J. Mannar Mannan. has published a paper titled “Smart scheduling on cloud for traffic signal to emergency vehicle using IoT” in the 4th International Journal on Cloud Computing during Nov 2021.

Dr. Srividya. R. has published a paper titled “A New Method of Secure Image Encryption by Using Enhanced RSA Algorithm” in the FABS 2021: International Conference on Forensics, Analytics, Big Data and Security during Dec 2021.

Ms. Vyshali Rao. has published a paper titled “A Systematic Approach on Reducing the Energy Consumption in Green Computing” in the Int Journal "The Design Engineering(Toronto)", VOL 2021: ISSUE 09, Jan 21 2022

Ms. Devi Shivashankari has published a paper titled “Expert System Based on Feature Selection for Classification of Self-Care Problems in Children and Youth People” in the International Arab Journal of Information Technology during Jan 2022.

Dr. Vijyalakshmi has published a paper titled “Expert System Based on Feature Selection for Classification of Self-Care Problems in Children and Youth People” in the International Arab Journal of Information Technology during Jan 2022.

Dr. Ramya C has published a paper titled “A Robust Web Information Retrieval Using PSO Approach Accelerated by Simulated Annealing” in the Journal of Information Science and Engineering during Dec 2021

PATENTS

SL No.	FACULTY INVOLVED	PATENT TITLE	MONTH OF SUBMISSION
1	Dr M. Farida Begam	Unified Method for automation of UML design diagrams from SRS and FRD using Natural Language Processing and	Feb 2022
2	Dr. Ganesh D R	IOT and wireless based intelligent e-vehicle with self power generating optimal power	OCT 2021
3	Ms. Shilpa Pandey	Health Mitra- A smart health monitoring system with IoT infrastructure	March 2022
4	Mr Chithambarathanu M	IOT and wireless based intelligent e-vehicle with self power generating optimal power management	OCT 2021
5	Dr. Srividya R	Blind Assistance with Smart Shoe using IoT and Self Powered Solar Sensors	Feb 2022
6	Ms. Vyshali Rao	Blind Assistance with Smart Shoe using IoT and Self Powered Solar Sensors	Feb 2022

I & E CELL ACTIVITIES



**INSTITUTION'S
INNOVATION
COUNCIL**
(Ministry of HRD Initiative)

Institution's Innovation Council Organized One day workshop on "Problem Solving and Ideation". The resource person is Vishal Nair, Co-founder Lightnsalt Pvt. Ltd

**CMR INSTITUTE OF TECHNOLOGY
BENGALURU**

**INSTITUTION'S INNOVATION COUNCIL
ORGANIZING
A WORKSHOP ON
PROBLEM SOLVING
&
IDEATION
By
VISHAL NAIR
Entrepreneur | Educator | Editor
Co-Founder, Lightnsalt Pvt. Ltd**

**CREATIVE
ideas**

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Dr. V. Agalya
IIC President
CMRIT

Dr. Sanjay Jain
Principal
CMRIT

Date: 26 November 2021
Time: 2:00 PM - 5:30 PM

Join Google Meet Link:
<https://meet.google.com/afw-gfjtr-uzq>

Registration Link:
<https://forms.gle/8Wz8D1E1MKAJ2892PC9L4G9796P9H>

SESSION TAKEAWAYS

- Empathize
- Define
- Ideate
- Build - Measure - Learn
- Commercialize your solution

Institution's Innovation Council Organized One day workshop on "Entrepreneurships and Behaviour Development". The resource person is Vishal Nair, Co-founder Lightnsalt Pvt. Ltd

**CMR INSTITUTE OF TECHNOLOGY
BENGALURU**

INSTITUTION'S INNOVATION COUNCIL

Institution's Innovation Council (IIC 4.0)
is organizing a Workshop on

*Entrepreneurship Skill, Attitude & Behaviour
Development*

VISHAL NAIR
Entrepreneur | Educator | Editor
Co-Founder, Lightnsalt Pvt. Ltd

Registration Link: <https://forms.gle/2UJMyfmsT2B2v4H>
Google Meet Link: <https://meet.google.com/zze-sibz-sfn>

Date: 01st Jan 2022

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Dr. V. Agalya
IIC President
CMRIT

Dr. Sanjay Jain
Principal
CMRIT

**WHY ARE WE TALKING ABOUT
Entrepreneurship Skill,
Attitude and Behaviour
DEVELOPMENT
AT THIS TIME**

INDUSTRY CONNECT ACTIVITIES ATTENDED BY FACULTY

SL NO.	FACULTY	EVENT/TOPIC	VENUE
1	Dr. M. Farida Begam	SDET Training Program	Global Logic
2	Ms. Ashwini Doke	Data Science	Online
3	Dr. Vijyalakshmi	Microfluidic Lab on Chip (LOC) device design and challenges in Biomedical applications	Online
4	Dr. Srividya R	STTP on Introduction to Android Programming & Interfacing for Robotic Applications.	Online
5	Ms. Vyshali Rao	STTP on Introduction to Android Programming & Interfacing for Robotic Applications.	Online
6	Mr. Harish L	STTP on Introduction to Android Programming & Interfacing for Robotic Applications.	Online

STUDENT ACHIEVEMENTS

SL NO.	STUDENT	EVENT
1	Aditya Haldar	Winners in RPA Tools Hackathon 2021
2	Rahul Rai	Winners in TYL- 24 Hour Hackathon - ML/Big Data/CC/FSD
3	Saswat Pandey	Winners in TYL- 24 Hour Hackathon - ML/Big Data/CC/FSD
4	Sachin Kumar	1 st Place in TYL- 24 Hour Hackathon - Java/Python/C++
5	Saswat Pandey	2 nd Place in TYL- 24 Hour Hackathon - Java/Python/C++
6	Rahul Rai	2 nd Place in TYL- 24 Hour Hackathon - Java/Python/C++

PLACEMENTS

COMPANY IN WHICH PLACED	STUDENT COUNT	PACKAGE
JUSPAY	1	11 LPA
MERCEDES BENZ	5	10 LPA
SOFTWARE AG	2	9 LPA
FIS	1	8.6 LPA
WILEY MTHREE	1	7 LPA
ELLUCIAN	3	7 LPA
ALTIMETRIK	1	7 LPA
BOSCH GLOBAL	3	5 LPA
IBM	1	4.5 LPA
NTT DATA	1	3.5 LPA
SILVERPEAK GLOBAL- JAPAN	2	4 LPA
L & T, Technology	1	4 LPA
FIS GLOBAL	1	3.5 LPA
FIS GLOBAL	1	3.25 LPA