

# INFO - RISES

Volume 5, Issue 4, February 2021 - September 2021

Department of Information Science and Engineering



# CMR INSTITUTE OF TECHNOLOGY



DEPARTMENT OF  
INFORMATION SCIENCE  
&  
ENGINEERING

**INFO RISES 2020 -2021**

**EVEN SEMESTER**

**VOLUME 5,ISSUE 4**



**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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News Letter Editor  
**Dr.S.Geetha**

## MESSAGE FROM HOD

There are several ways to present the canonical core of information science and Engineering. Over the years we have developed a distinct style and method that bridges the theory - practice divide while remaining grounded in the core. Technology changes rapidly, especially in the field of computing, whereas the science, if it changes at all, does so much more gradually. Our understanding is that persons who are clear and thorough about the fundamentals can adapt to rapid changes in technology relatively easily. We want the education imparted to our students to be the basis of a lifetime of learning. This is the single most important attribute of the education offered here. Our department has remained true to the vision on which it was founded.

Learning is a continuous process and does not end with the acquisition of a degree, especially because steady and rapid advances in computing technologies shorten the life of tools and techniques prevalent today. Therefore, we do not aim to make our students walking manuals of any language or package. Instead, they are given a strong foundation in Information science and problem-solving techniques and are made adaptable to changes. We believe that this approach to teaching-learning, coupled with practical experience gained during Industrial Training in reputed organizations, equips our students to handle the challenges posed by the software industry. I am confident that you will find our students worthy of your organization.

**Dr. M. Farida Begam**  
**Head - Information Science & Engineering**



# CLUB ACTIVITIES

SL No	CLUB	EVENT	DATE
1	Google DSC	Android Study Jams	06.01.2021
2	RISE	Reg-Ex/Python	26.01.2021
3	Google DSC	Machine Learning Hiest	16.05.2021
4	CodeChef	Code It Right	06.05.2021
5	Coding Ninjas	Web It Out 2.0	13.05.2021
6	Coding Ninjas	Roadmaps for Placements and Internships	26.05.21
7	Codechef	Decode Apocalypse 2.0	05.06.2021
8	Codechef	Assess.py	06.07.2021
9	Codechef	CodeRush	25.07.2021
10	Coding Ninjas	Tech qWiz!	08.07.2021
11	RISE	Its Quiz Time (JSP Quiz)	15.07.2021
12	RISE	Quick-O-Pattern	21.08.2021
13	Coding Ninjas	Hack-lympics ( finals)	29.08.2021
14	Coding Ninjas	Hack-lympics (Quarter finals)	18.08.2021

15	<b>Coding Ninjas</b>	Hack-Lympics (Semi finals)	26.08.2021
16	<b>Google DSC</b>	Data Visulaization	25.08.2021
17	<b>Google DSC</b>	Quiz : Numpy & Pandas	22.08.2021
18	<b>Google DSC</b>	What is Data Science?	19.08.2021
19	<b>Google DSC</b>	Python Workshop	17.08.2021
20	<b>Google DSC</b>	Quizzicles - The Python Way	11.08.2021

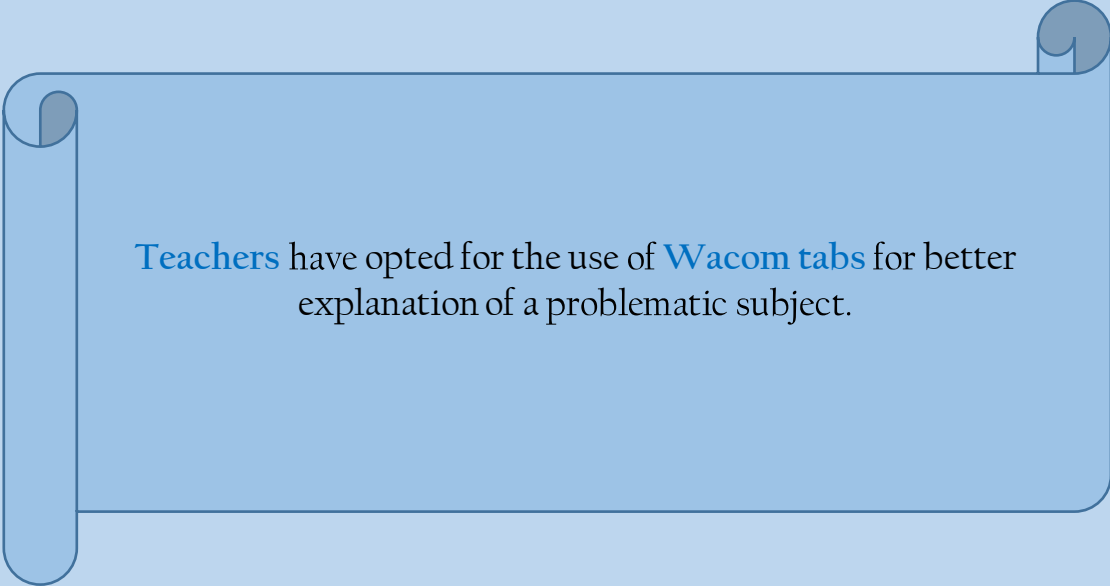
# INDUSTRY CONNECT

1. Training Program was conducted by S.Nithya, registered Patent Agent, R.K Deewan & co, Chennai with the topic of Innovation patents and mentorship to all faculty and students on 25-03-2021
2. Training Program was conducted by Resource Persons from CSE & ISE Department with the topic of Mobile Application Development from 20.3.2021 to 26.03.21
3. Training Program was conducted with the topic of FULL STACK Development from 29.03.21 to 06.04.21
4. Training Program was conducted by Muqet Mukhtar, Microsoft Canada with the topic of Future of Data science in Tech on 05.05.2021
5. Training Program was conducted by Dr.S.PadmaPriya, Professor & Research Coordinator ,CSE with the topic of Orientation for all students & faculties of Institute by Innovation Ambassador on 06.05.2021.
6. Training Program was conducted by Mr.S.Balachanar, Lead Data Architect, Shell India Private Limited, Bangalore with the topic of IIoT and Its Use Cases on
7. Training Program was conducted with the topic of 08.05.2021
8. Training Program was conducted by Prof.Boudhayan Bhattacharya, Dept. of Computational Science with the topic of Big Data Analytics Real Time Use Cases on 29.05.21
9. Training Program was conducted by Ms.Neethu P S, Application Engineer, Tektronix, Bengaluru – INDIA with the topic of IoT Challenges and Solutions on 03.06.21
10. Training Program was conducted by Dr. Deepa Parsar, Amity University, with the topic of Artificial Intelligence in Health Care on 24.06.21.
11. Training Program was conducted by Mr. Prashanth, Developer Weekend with the topic of Discussion on MOU on 14.08.2021

# TEACHING PEDAGOGIES

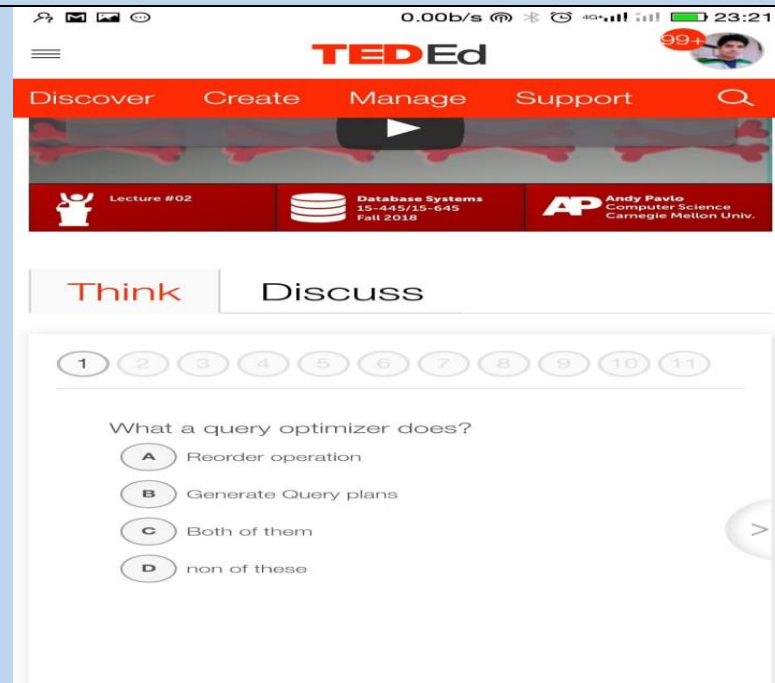
**In the wake of the COVID-19 Pandemic, all the faculty have moved towards online mode of teaching to keep the teaching-learning process active.** Every faculty has created a Google Classroom for their theory/lab subject, which provides a common platform for interacting with students as well as for sharing all relevant subject materials. Many faculty have done extensive study on the best platform that is available for online/live classes before stepping into live mode – Zoom, Microsoft Teams, Ted-Ed, GoogleMeet, GoToWebinar, WebEx etc.





Teachers have opted for the use of **Wacom tabs** for better explanation of a problematic subject.

Wacom tabs are graphics tablets/pen tablets that allow a person to draw by hand, capturing an image or graphic in digital form. The information is displayed on the monitor of a connected PC. It basically allows a person to digitally doodle straight into the computer. The pen, or stylus, that comes with the tablets can communicate much more effectively. Its pressure-sensitive system will let you determine things like how thick or thin a line should be, and it can instantly capture handwritten notations. The tablet communicates with the pen, plotting its location in micro-seconds as it makes your adjustments on screen.



A Ted-Ed platform allows a teacher to add interactive questions, discussion topics and more to TED-Ed Animations, TED talks or any video on YouTube. The lessons can be shared with the students online and gives the option to track the result

## ***Kahoot quiz***

A Kahoot quiz is a series of questions with between two to four multiple-choice answers to choose from. The questions are pre-sented on screen with text and students are given an allotted time to respond using their smart device or computer. Kahoot allocates each multiple-choice answer a colour and shape which students see on their own devices and select by clicking/tapping on them. Questions and answers can be set to randomise each time the Kahoot is played meaning the same quiz can be used again without worrying that students will simply memorise the order of questions and answers. All data can be downloaded into Microsoft Excel or as a CSV file once the quiz has ended, giving details about which questions students got right or wrong, as well as how quickly they responded to the problems presented

A class Animal has a subclass Mammal. Which of the following is true

✓ 34

1 4 2

Show results

See game

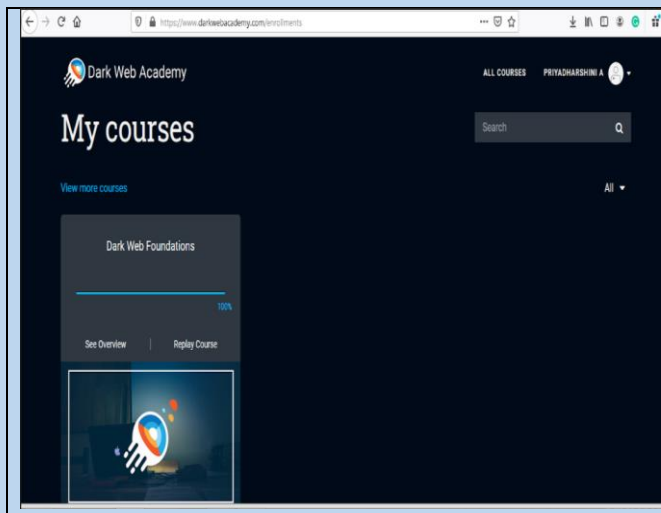
- Because of single inheritance, Mammal can have no other parent than Animal. ✓
- Because of single inheritance, Mammal can have other parent than Animal. ✗
- Because of multiple inheritance, Mammal can have other parent than Animal. ✗
- Because of multiple inheritance, Mammal can have no other parent than Animal. ✗

kahoot.it Game PIN: 5403925



# MOOC/TECHNICAL PAPER

- 20/22 Faculty members completed their MOOC in ODD semester.
- 174/174 students have registered their MOOC courses in the 4 th semester.
- 159/186 students have registered their Technical Paper in the 6 th semester.



# 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.

SNO	FACULTY NAME	TOPIC*	MONTH & YEAR
1.	Dr. Sudhakar K. N	Social Networks	FEB 2021
2.	Prof.Shilpa Mangesh Pande	Deployment of the App on the cloud platform	FEB 2021
3.	Dr.S.Geetha	IOTA	FEB 2021
4.	Dr. Anand R	Automation using Selenium Web Driver	Mar 2021
5.	Dr.Savitha Hiremath	Exploratory Data Analysis	Mar 2021
6.	Prof.Dhanya Viswanath	Industrial IoT – An Overview	Mar 2021
7.	Prof. Priyadharshini A	DARK WEB	Mar 2021
8.	Dr.Shahina	Intellectual -Trade marks	May 2021
9.	Prof.Bineet kumar Jha	CNN and Neural Style Transfer(NST)	May 2021
10.	Prof.Anujose	Matrix factorization and recommendation engines	May 2021
11.	Mr. Prasad B S	Chaos and Encryption	Jun 2021
12.	Dr. Shreekanth M Prabhu	Can we make Computers understand words?	Jun 2021
13.	Mrs. Akhilaa	Python GUI Programming with Tkinter	Jun 2021
14.	Mrs. Swathi Y	Ensemble Learning Techniques	Jun 2021

# FACULTY PUBLICATIONS

1. Dr.S.Geetha had presented a paper on Ever Science Publications with the title of Towards Improved Detection of Intrusions with Constraint-Based Clustering in International Journal of Computer Networks and Applications (IJCNA).
2. Dr.S.Geetha had presented a paper on Bentham Publications with the title of Proactive Routing Mechanism for Removing Far Sensor in IoT using A Design of B \* Index in International Journal of Sensors, Wireless Communications and Control.
3. Dr.Anand had presented a paper on Springer Lecture Notes in Networks and Systems with the title of Learning Of Advanced Telecommunication Computing Architecture (Atca) Based Femto Gateway Framework in International Conference on Expert Clouds and Applications (ICOECA 2021).
4. Dr. Shreekanth M Prabhu had presented a paper with the title of Frameworks and Models for Surveillance of COVID-19 Pandemic in International Conference on Communication and Computational Technologies (ICCCT ) 2021 Feb 27-28,2021
5. Dr. Shreekanth M Prabhu had presented a paper on IOP Publishing with the title of Containing COVID-19 Pandemic using Community Detection in Journal of Physics: Conference Proceedings
6. Dr.Anand had presented a paper with the title of Fault-Tolerant Cluster Head Selection Using Game Theory Approach in Wireless Sensor Network in International Conference on Pervasive Computing and Social Networking (ICPCSN 2021)/ Springer Lecture Notes in Networks and Systems
7. Dr. R. Joshua Samuel Raj had presented a paper on ICICV 2021 With the title of DCT based Enhanced Tchebichef Moment using Huffman Encoding.
8. Dr. R. Joshua Samuel Raj had presented a paper on ICICV 2021 With the title of Cognitive and Cybernetics based Human Adaptive Mechatronics System in Gait Rehabilitation Therapy
9. Dr. R. Joshua Samuel Raj had presented a paper on ICICV 2021 With the title of Input Assistive Keyboards for people with disabilities: A survey
10. Dr.R.Chinnaiyan had presented a paper with the title of A Blockchain based Electronic Medical Health Records Framework using Smart Contracts in ICCCI 2021
- 11.Dr.R.Chinnaiyan had presented a paper with the title of IoT and Machine Learning based Peer to Peer Platform for Crop Growth and Disease Monitoring System using Blockchain in ICCCI 2021
- 12.Dr.R.Chinnaiyan had presented a paper with the title of Blockchain As a Service (BaaS) Framework for Government Funded Projects e-Tendering Process Administration and Quality Assurance using Smart Contracts in ICCCI 2021
- 13.Dr.R.Chinnaiyan had presented a paper with the title of An Open Source Distributed Virtualization for Enterprise Infrastructure using OVIRT in ICCCI 2021
- 14.Dr.R.Chinnaiyan had presented a paper with the title of MRI Image based Brain Tumour Segmentation using Machine Learning Classifiers in ICCCI 2021
- 15.Dr.R.Chinnaiyan had presented a paper with the title of Machine Learning Approaches for Early Diagnosis and Prediction of Fetal Abnormalities in ICCCI 2021

16. Dr. Savitha Hiremath had presented a book on Lambert Publications with the title of Efficient Techniques for Sentiment Analysis from Social Media.
17. Prof. Bineet Kumar Jha had presented a paper with the title of Product Recommendation System using Scalable Alternating Least Square Algorithm and Collaborative Filtering using Apache Spark in E-Commerce in Annals of R.S.C.B, Romania.
18. Dr. M shahina parveen had presented a paper with the title of Predict the Severity Level and Early Prediction of Covid-19 Using CEDCNN Classifier for Big Data in International Journal of Grid and Distributed Computing.
19. Prof. Anu Jose had presented a paper with the title of Artificial Intelligence Techniques for Agriculture Revolution: A Survey in Annals of R.S.C.B, Romania
20. Dr. R. Chinnaiyan had presented a paper with the title of Block chain As a Service (BaaS) Framework for Government Funded Projects e-Tendering Process Administration and Quality Assurance using Smart Contracts in 2021 International Conference on Computer Communication and Informatics (ICCCI).
21. Dr. R. Chinnaiyan had presented a paper with the title of IoT and Machine Learning based Peer to Peer Platform for Crop Growth and Disease Monitoring System using Blockchain in 2021 International Conference on Computer Communication and Informatics (ICCCI).
22. Dr. R. Chinnaiyan had presented a paper with the title of An Open Source Distributed Virtualization for Enterprise Infrastructure using OVIRT in 2021 International Conference on Computer Communication and Informatics (ICCCI).
23. Dr. R. Chinnaiyan had presented a paper with the title of MRI Image based Brain Tumour Segmentation using Machine Learning Classifiers in 2021 International Conference on Computer Communication and Informatics (ICCCI).
24. Dr. R. Chinnaiyan had presented a paper with the title of A Blockchain based Electronic Medical Health Records Framework using Smart Contracts in 2021 International Conference on Computer Communication and Informatics (ICCCI).
25. Dr. R. Chinnaiyan had presented a paper with the title of Machine Learning Approaches for Early Diagnosis and Prediction of Fetal Abnormalities in 2021 International Conference on Computer Communication and Informatics (ICCCI).
26. Prof. Swathi had presented a paper with the title of A Framework and Survey of Digital learning tools for Online teaching in Springer SIST series.
27. Prof. Bineet kumar Jha had presented a book with the title of Programming and Data Structures: Work Book from Amazon KDP Publications.
28. Prof. Bineet kumar Jha had presented a book with the title of Advanced Java & J2EE from Amazon KDP Publications.
29. Prof. Bineet kumar Jha had presented a book with the title of Mobile Application Development 18CSMP68-Lab Manual from Amazon KDP Publications.
30. Prof. Bineet kumar Jha had presented a paper with the title of Sentiment Analysis for E-Commerce Products Using Natural Language Processing in Annals of Romanian Society for Cell Biology, Romania.
31. Prof. Bineet kumar Jha had presented a paper with the title of Question Answering System with Indic multilingual-BERT in 5th International Conference on Computing Methodology and Communication (ICCMC-2021), Erode, Tamilnadu, India

32. Prof. Bineet kumar Jha had presented a paper with the title of Character Recognition System for Devanagari Script Using Machine Learning Approach in 5th International Conference on Computing Methodology and Communication (ICCMC-2021), Erode, Tamilnadu, India
33. Prof. Bineet kumar Jha had presented a paper with the title of Time Series Forecasting Model For Supermarket Sales using FB-Prophet in 5th International Conference on Computing Methodology and Communication (ICCMC-2021), Erode, Tamilnadu, India
34. Prof. Bineet kumar Jha had presented a paper with the title of E-commerce Product Image Classification using Transfer Learning in 5th International Conference on Computing Methodology and Communication (ICCMC-2021), Erode, Tamilnadu, India
35. Prof. Shilpa Mangesh Pande had presented a paper with the title of Time Series Forecasting Model For Supermarket Sales using FB-Prophet in 5th International Conference on Computing Methodology and Communication (ICCMC-2021), Erode, Tamilnadu, India
36. Prof. Shilpa Mangesh Pande had presented a paper with the title of Time Series Forecasting Model For Supermarket Sales using FB-Prophet in 5th International Conference on Computing Methodology and Communication (ICCMC-2021), Erode, Tamilnadu, India
37. Prof. Shilpa Mangesh Pande had presented a paper with the title of Crop Recommender System Using Machine Learning Approach in 5th International Conference on Computing Methodology and Communication (ICCMC-2021), Erode, Tamilnadu, India
38. Dr. Anand R had presented a paper with the title of Question Answering System with Indic multilingual-BERT in 5th International Conference on Computing Methodology and Communication (ICCMC-2021), Erode, Tamilnadu, India
39. Dr. Anand R had presented a paper with the title of Resilience Test case Automation for LTE Femtocell Networks in 5th International Conference on Computing Methodology and Communication (ICCMC-2021), Erode, Tamilnadu, India.
40. Dr. S. Geetha had presented a paper with the title of Secure Smart Green House Farming using Blockchain Technology in Turkish Journal of Computer and Mathematics Education.
41. Dr. M. Shahina Parveen and Prof. Priyadharshini A had presented a paper with the title of Prediction of Mood Emotion of Podcasts using TF-IDF Feature Extraction Technique in JHUST Journal.

# PATENTS

SNO	FACULTY	PATENT TITLE	MONTH OF
1.	Dr.M. Shahina parveen	Distance detection sensor in Mask for children safety in Covid-19 environment	Jan 2021
2.	Mr. Bineet Kumar Jha	System and Methods for Determining Product Performance in E-Commerce Platform using Sentiment	Jan 2021
3.	Dr. Shreekanth M Prabhu	A System and Method For Implementing Secure Voting In A Digital Voting System	Jan 2021
4.	Dr. Shreekanth M Prabhu	A System and Methods For Designing Social Information Filesystems	Jan 2021
5.	Dr. Shreekanth M Prabhu	System and Methods For Designing And Operating collaborative Disintermediated File Systems	Jan 2021
6.	Dr. Shreekanth M Prabhu	System and Method For Implementing Trusted Digital Payment Platform	Jan 2021
7.	Dr. S.Geetha	An Electronic Medical Record Database System Using blockchain-Enabled Key-Value Storage System	Feb 2021
8.	Prof. Priyadharshini A	Tracking Gold Jewel Using Gold Jewel Identifier	Mar 2021

9.	Dr. Shreekanth Prabhu	System and Method for Implementing Secure Identity and Transaction Network	Mar 2021
10.	Prof.Anu Jose	A Collaborative Smart Crop Yield Prediction and Estimation System	Mar 2021
11.	Prof.Vidya Vukanti	A Collaborative Smart Crop Yield Prediction and Estimation System	Mar 2021
12.	Dr. S.Geetha	IoT Network Security Using Challenge-Response Protocol Against Black-Box Attack	Mar 2021
13.	Dr. S.Geetha	Rapid Transaction Technique Using Flexible Blockchain Configuration in Industrial IoT	Mar 2021
14.	Dr. M. Shahina Parveen	System and method on Augmented Reality for medical applications using spatial mapping	Apr 2021
15.	Dr. Shreekanth M Prabhu	System And Method For Implementing Secure Identity And Transaction Network	Apr 2021
16.	Dr. S.Geetha	An Artificial Intelligence Based Automated Medical Chatbot System For Preliminary Medical Data Enquiry Using	Apr 2021
17.	Prof. Bineet Kumar Jha	Security, IoT, BlockChain and Restful APIS(WS)	May 2021
18.	Dr. M Shahina Parveen	Security, IoT, BlockChain and Restful APIS(WS)	June 2021

19.	Dr. Savitha Hiremath	Agri commerce as Services	June 2021
20.	Prof. Bineet Kumar Jha	Agri commerce as Services	June 2021
21.	Prof. Shilpa Mangesh Pande	Agri commerce as Services	June 2021
22.	Prof. Dhanya Viswanath	Agri commerce as Services	June 2021
23.	Prof. Bineet Kumar Jha	Security, IoT, BlockChain and Restful APIS(WS)	June 2021

# FACULTY AWARDS & ACHIEVEMENT

SL NO	FACULTY	CATEGORY OF AWARD	AWARDED BY
1	Dr. Savitha Hiremath	Best paper Award	3rd IEEE International Conference



# FACULTY AS RESOURCE PERSONS

1. Prof.Prasad B S served as resource person for Study in India- Education Expo and presented a topic on Study in India- Education Expo.
2. Prof. Bineet Kumar Jha served as resource person for ATRIA INSTITUTE OF TECHNOLOGY and presented a topic on "PYTHON 101"
3. Dr. M Shahina Parveen served as resource person for CMR Institute of Technology and presented a topic on sessions on Design Thinking
4. Prof.Prasad B S served as resource person for CMR Institute of Technology and presented a topic on Mobile Application Development
5. Prof.Anujose served as resource person for CMR Institute of Technology and presented a topic on Mobile Application Development
6. Prof. Priyadarshini A served as resource person for CMR Institute of Technology and presented a topic on Mobile Application Development
7. Prof. Priyadarshini A served as resource person for CMR Institute of Technology and presented a topic on Full stack Web Development
8. Prof. Bineet Kumar Jha A served as resource person for CMR Institute of Technology and presented a topic on Full stack Web Development
9. Dr. Sudhakar K.N served as resource person for CMR Institute of Technology and presented a topic on Full stack Web Development
10. Dr. Anand R served as resource person for CMR Institute of Technology and presented a topic on Full stack Web Development
11. Dr.R.Chinnaiyan served as resource person for Bishop Heber College (Autonomous) and presented a topic on Research Issues and Challenges in IoT.
12. S.Geetha served as resource person for Vemana Institute of Technology and presented a topic on Block Chain for Financial Applications
13. Dr.R.Chinnaiyan served as resource person for Garden City University and presented a topic on DC Meeting Research Scholars.
14. Dr.S.Geetha served as reviewer and chairperson for IEEE International Conference at Shakthi college of Engineering.
15. Dr.S.Geetha served as reviewer for International Journal of Computer Networks and Applications Journal.
16. Prof.Prasad B S served as resource person for Study in India- Education.
17. Dr.R.Anand served as Evaluator for Global Academy of Technology, Bengaluru Event name on Mid point activity report.
18. Dr. M Shahina Parveen served as resource person in Five Day online Faculty Development Program at MVSR College of engineering, Hyderabad.

## Ph. D STATUS UPDATES

SL. NO	Date of Registration	FACULTY NAME	Research Center	STATUS*
1.	05.03.2021	Prof.Priyadharshini A	Karpagam Academy of Higher Education	Registered
2.	14/01/2016	Prof.Prasad B S	VTU-RRC	Comprehensive Completed
3.	01.08.2019	Dr.R.Chinnaiyan	Jain University	Provisional Registration Confirmed & Synopsis Completed
4.	15.01.21	Prof.Vidya V	Amrita University	Coursework in progress

# INDUSTRY CONNECT ACTIVITIES ATTENDED BY FACULTY

SL NO.	FACULTY	EVENT/TOPIC	VENUE
1.	Dr. M .Shahina Parveen	Data Science	AICTE-ATAL(Cochin University Of Science And Technology.)
2.	Priyadharshini A	Cyber Security	AICTE-ATAL(Thangal Kunju Musaliar College Of Engineering)
3.	Priyadharshini A	Nurture Your Ideas Through Incubation	CMRIT
4.	Bineet Kumar Jha	Computational Thinking in India	Indian Institute Of Technology, Roorkee (Iit, Roorkee)
5.	Shilpa Pande	Crop Weather Modelling: Tools for Climate Smart Agriculture	Mahatma Phule Krishi Vidyapeeth Rahuri, Maharashtra
6.	Shilpa Pande	Universal Human Values	Online
7.	Dr. M.Shahina Parveen	Tlp Modern Pedagogical Techniques for Effective Teaching & Learning	Atal- Aicte Online
8.	Prasad B S	Mobile Application Development	CIT, Bangalore
9.	Akhilaa	Mobile Application Development	CIT, Bangalore
10.	Priyadharshini A	UHV In Technical Education	Online

11.	Ashwini Doke	AI Application	Online
12.	Dr. M Shahina Parveen	National Education Policy	Online
13.	Dr. M Shahina Parveen	Android App Development	Online
14.	Shilpa Pande	Mobile Application Development	Offline
15.	Dr. Ganesh D R	Mobile Application Development	Offline
16.	Dr.R.Chinnaiyan	Mobile Application Development	Offline
17.	Dr.R.Chinnaiyan	Mobile Application Development	Online
18.	Dr.Sudhakar K N	UHV In Technical Education	Online
19.	Dr.Anand R	UHV In Technical Education	Online
20.	Swathi.Y	UHV In Technical Education	Online
21.	Dr. Sudhakar K. N	UHV In Technical Education	Online
22.	Dr. Sudhakar K. N	Mobile Application Development	Cit, Bangalore
23.	Dr. M. Shahina Parveen	UHV In Technical Education	Online
24.	Dr. M. Shahina Parveen	Full Stack Development	CMRIT
25.	Joshua Samuel Raj	Full Stack Development	CMRIT
26.	Bineet Kumar Jha	Full Stack Development	CMRIT
27.	Dr.R.Chinnaiyan	Full Stack Development	CMRIT

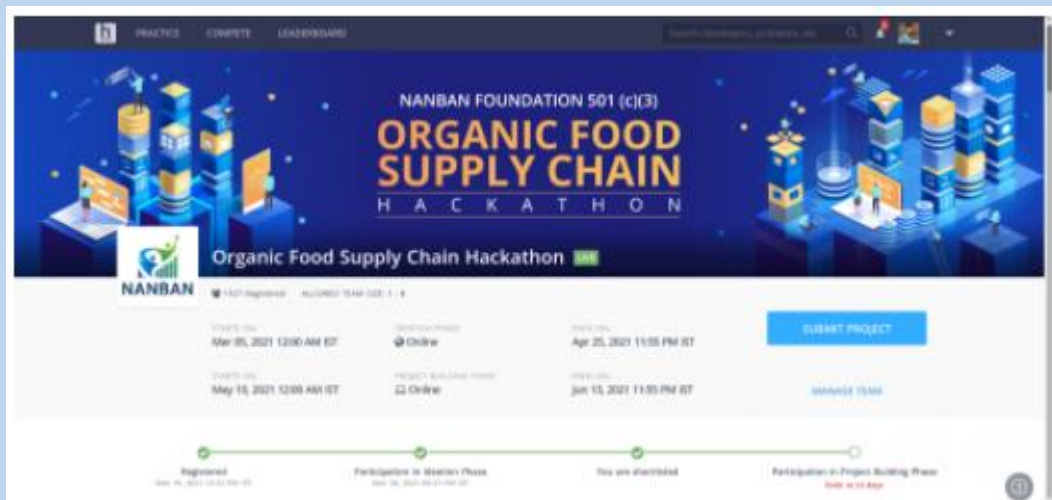
28.	Dr.R.Chinnaiyan	Printable Electronic Sensors to Enable New Connected Platforms	IETE Mysore Centre
29.	Shilpa Pande	Full Stack Web Development	CMRIT
30.	Swathi.Y	Full Stack Development	CMRIT
31.	Dr. Ganesh	Full Stack Development	CMRIT
32.	Dr. Ganesh	Mobile Application Development	CMRIT
33.	S.Geetha	RPA Design and Development V2.0	Ui Path Academy - Online
34.	Dr.Shahina Parveen	Data Science	CMRIT
35.	Dr.Shahina Parveen	Accelerators / Incubation – “Opportunities For Students & Faculties - Early-Stage Entrepreneurs	CMRIT
36.	Priyadharshini A	Innovations And Road Map For Selecting Projects	CMRIT
37.	Dr.R.Chinnaiyan	Orientation For All Students & Faculties Of Institute By Innovation Ambassador	CMRIT
38.	Dr.R.Chinnaiyan	Industrial Internet Of Things And Its Use Cases	CMRIT
39.	Dr.R.Chinnaiyan	Big Data Analytics With Real Time Use Cases	CMRIT

40.	Dr.Shahina Parveen M	"Orientation session for all students & faculty of Institute by Innovation Ambassador"	Online
41.	Dr.Shahina Parveen M	Orientation session on schemes and programs for IIC Institution	Online
42.	Dr.Shahina Parveen M	Session on "Writing Tips for getting University Rank"	Online
43.	Dr.Shahina Parveen M	"Third Wave Precaution & Prevention Advice - Q&A"	Online
44.	Dr. Anand R	Applied Data Science and Machine Learning	Online
45.	Prof. Bineet Kumar Jha	Universal Human Values in Education	Online
46.	Dr. Sudhakar K. N	Applied Data Science and Machine Learning	Online
47.	Dr.R.Chinnaiyan	"SARS – COV2 Vaccine Challenges for India"	Online
48.	Dr.R.Chinnaiyan	AI for Health care	Online
49.	Prof.Akhilaa	Java Programming	Infosys Limited
50.	Prof. Prasad B S	"iThenticate - Publish with Confidence"	Online
51.	Prof. Shilpa Pande	IoT Use Cases with Blynk App	Online

52.	Dr. M Shahina Parveen	IoT Use Cases with Blynk App	Online
53.	Dr. M Shahina Parveen	Lean Start up and Minimum Viable Product	Online
54.	Dr. M Shahina Parveen	Prototype Validation - Converting Prototype into a Startup	Online
55.	Dr. M Shahina Parveen	Innovation Ambassdor Training IIC -2021	Online
56.	Prof. Shilpa Pande	Neoteric Frontiers in Cloud and Edge Computing	Online
57.	Prof. Priyadarshini A	Prototype Validation - Converting Prototype into a Startup	Online
58.	Dr.R.Chinnaiyan	Semantic Intelligence: The Way Forward with Artificial Intelligence (Part I)	Online
59.	Dr.R.Chinnaiyan	IoT Use Cases with Blynk App	Online
60.	Dr.R.Chinnaiyan	Neoteric Frontiers in Cloud and Edge Computing	Online
61.	Shilpa Pande	Research Innovation & ranking	Online
62.	Shilpa Pande	How to build Mathematical Model for Computer Science Research Problem	Online

# STUDENT ACHIEVEMENTS

SL NO.	STUDENT NAME	EVENTS
1.	Vedant Tripathi 1CR19IS172	Finalist, Bangalore Times Fresh Face Season 13
2.	Jessica & 1CR18IS068	Winner, VENTURA- Business Plan/ Prototype Competition, IIC
3.	Jessica & 1CR18IS068	3 Rd Winner, IDEA COMPETITION, Idea Club
4.	Rakesh S Beervi	Organic Food Supply Chain Hackathon.
5.	1CR18IS063 & Ishan Achinta	3 Rd Winner, TYL Online Hackathon "Java"
6.	1CR18IS063 & Ishan Achinta	3 Rd Winner, Assess.Py
7.	1CR18IS064 & Jagriti Ratnani	3 Rd Winner, TYL Online Hackathon "Java"



**Meet Bengaluru's Fresh Face finalists**

**Congratulations!**  
*Vedant Tripathi*  
 on being one of the  
**TIMES FRESH FACE**  
**City Championship**  
**Finalist**

**Certificate of Appreciation**

This is to certify that **Mr. Ishan Achinta** was the runner-up (3rd Place) in **TYL Online Hackathon "JAVA"** organized by **CMR Institute of Technology** from 7th to 8th July 2021.

Dr. Manoj Challa, Assoc. Prof, Head-SC&A, CMRIT, Bangalore.

Dr. Sanjay Jain, Principal, CMRIT, Bangalore.

**Certificate of Appreciation**

This is presented to  
**ISHAN ACHINTA**  
 1CR18IS063

For securing **3rd** position in **EVENT Assess.py** conducted by **CODE CHEF Club** of **CMR Institute of Technology** on 6th July 2021.

**Certificate of Appreciation**

This is to certify that **Ms. Jagriti Ratnani** was the runner-up (3rd Place) in **TYL Online Hackathon "JAVA"** organized by **CMR Institute of Technology** from 7th to 8th July 2021.

Dr. Manoj Challa, Assoc. Prof, Head-SC&A, CMRIT, Bangalore.

Dr. Sanjay Jain, Principal, CMRIT, Bangalore.

## RESULTS - ODD SEMESTER

<b>SEMESTER</b>	<b>RESULT PERCENTAGE (%)</b>
3 rd	60.41
5 th	75.68
7 th	73.21

# ACADEMIC TOPPERS

1CR17IS097  
SUSHMA SREE G  
7 TH SEMESTER



1CR18IS135  
SHALINI PANDEY  
5 TH SEMESTER



1CR18IS137  
SHIREEN TAJ G  
5 TH SEMESTER



1CR19IS123  
S DISHA ADIGA  
3 TH SEMESTER



# PLACEMENTS

COMPANY NAME	STUDENT COUNT	PACKAGE
Deloitte	3	7.6LPA
SAP	1	7LPA
Ellucian	2	5.78LPA
Capgemini	10	3.8 LPA
PWC	2	6LPA
KOCH Technology Center	5	6LPA
Epsilon	1	6LPA
Practo Technologies	1	8.4 LPA
Bridge Solutions Groups	5	5.5 LPA
Infosys	4	3.6 LPA
Mindtree	5	2.97 LPA
Cognizant	5	4.02 LPA
Tcs Ninja	6	3.96LPA
Ernst & Young	2	4.25 LPA
Canbright Co. Ltd	1	21.5 LPA
Opentext	3	7.25 LPA
Fincity	2	5 LPA

Huwei	1	3.47 LPA
PWC	2	6 LPA
Entune	1	2.5 LPA
ITOrizon	2	3 LPA
Sprinkler	1	5 LPA
Cimpress	1	12 LPA
SAP	1	7 LPA
Infosys	1	3.6 LPA
ANDPADinc	1	23.5 LPA
DELL	1	7 LPA
EMERTXE	2	3 LPA
Accenture	1	4.5 LPA



# Article

## TECHNICAL ARTICLES BY FACULTY & STUDENT

### Will the data meet the public: When And Why? -Data can be managed ethically

**Dr. M. Shahina Parveen,**

**Associate Professor,**

**Department of ISE,**

**CMR Institute of Technology**

**Bengaluru**

Data challenges are evidenced by the increase in payment holidays to retail, real estate and other customers other than banks who need to seek information on holiday reasons. Banks there should then look for new information and more that they can use to get a clearer picture that customers may have a temporary problem compared to those who are truly depressed. Banks should approach this carefully to avoid creating additional ethical risks and ensure that customers are treated fairly in unprecedented situations. At the same time the reduction in spending due to concerns about coronavirus has pushed more consumers into digital interactions where they may previously have no space to step, providing firms with more analytical information. This has helped economists, regulators and governments understand how COVID19 and locks affect morale and accelerate the transition to digital payments. Similarly, the Black Lives Matter organization has brought systematic discrimination to the forefront and to the emergence of a political system. The distinction between different customers according to the calculated risk is found in the business model of banks and insurers and is the reason why people are charged different premiums and interest rates for the same or similar products. As financial services businesses bring greater data and algorithms to the decision-making process, the potential for risk increases. Although this has been the case for insurance for some time, as habits become more complex and opacity increases faster than those in charge of management, the risk can be very high. Discrimination on the basis of protected features or uncontrolled material that is explicitly or implicitly recorded in the data may arise illegally or unfairly. So what should banks and insurers do when data and social challenges meet? Boards need to lead their businesses in the 'right to do' law, their

regulatory and ethical obligations. Actions must be based on the social purpose of the business. This could mean that products need to be reviewed with everyone involved and in terms of whether there are barriers to installation related to the construction or distribution of insurance products. When switching to greater use of technology, banks, insurers and investment managers need to know the importance of experience and emotions in decision making (the value of a local bank manager or personal financial planner) compared to data and algorithms. Board members, especially non-executive directors, should have a say in what they do not understand, and consider for a long time whether the results are acceptable or not. Invest and promote a diverse organization. Bank management, insurance and investment should benefit all sectors of society. Along with its internal benefits for the business, diversity helps combat unfair data and how it is used. This is important at the board level, but also among technical experts, such as data scientists, and in the second and third line of defense.

## Beyond Machine Learning(Automated machine Learning)

**Ashwini R Doke**  
**Assistant Professor**  
**Department of ISE**  
**CMR Institute of Technology**

Automated Machine learning is the area of research which has gained lots of research in the past few years. In general, to build high quality models for Machine learning we need technical experts who have good knowledge in exploring various machine learning algorithms as well as to tune the hyper parameters efficiently. But with increasing size of data it's observed that data scientists cannot address these challenging tasks due to lack of expertise and experience in their respective domain. So, there is need to automate such crucial task in the domain of machine learning, which is known as AUTOML or automated machine learning. Which will be beneficial to all of us in terms of

1. Cost reductions
  - o Increased productivity for data scientists
  - o Democratization of machine learning reduces demand for data scientists
2. Increased revenues and customer satisfaction
3. Rolling out more models with increased accuracy can improve other, less tangible business results as well. For example, models lead to automation which improves employee engagement allowing them to focus on more interesting tasks

In order to automate the process of Machine learning Different Tools has been identified such as Dataiku, DataRobot , dotData, Google Cloud AutoML,H2O.ai,Tazi.ai,TPOT. One can start with any tool.

Why it is important?

As data science becomes a more integrated part of our lives, businesses need more solutions in this field and demand more data scientists to build these solutions. Without data science methods, companies might be unable to understand their processes, monitor performance levels, or take certain actions to prevent huge losses. In 2017 IBM report shares that the demand for data scientists will increase by 28% by 2020. The same report also indicates that it takes 43-51 days on average to fill a data scientist position. Considering the scarcity of data scientists and the amount of time for building data science solutions, autoML solutions can help businesses satisfy their demand for data scientists.

It also observed that Errors in applying machine learning algorithms:

It is up to data scientists to implement machine learning algorithms and choose a method that works best for the business case. However, the implementation process is prone to human made errors and bias. AutoML tools can automate this process and also

run a broader set of machine learning algorithms to select the best one, which might not be considered by data scientists before. AutoML is an important part of future Artificial Intelligence. This article briefly gives a summary of how AutoML is important.

## WEB SCRAPING

YASH NEGI

1CR19IS176



Web scraping, while for some, might not be a new term, but for others, it is something they are not aware of. So how is web scraping used? Imagine you need to find certain information about a topic in your assignment/project, what do you do? The first thing you do is google and search for it, then after finding the appropriate information you copy and paste the same material into your project/assignment, but what if you are short of time and need to extract as much information as you can from any website, in that situation copy and pasting won't work, what you will then need to use is Web Scraping. So, the next question that arises is, What is Web Scraping? Web Scraping is an automatic process that uses bots to extract as much data and content as it can from a website. Most of this data is unstructured data in an HTML format which is then converted into structured data in a spreadsheet or a database so that it can be used in various applications. The web scraping software may directly access the World Wide Web using the Hypertext Transfer protocol or a web browser. Web Scraping can be done manually by a software user but as mentioned earlier it is also an automatic process involving bots or/and also web crawlers. Many large websites like Google, Twitter, Facebook, Stack Overflow, etc. have application programming interfaces (API's) that allow you to access their data in a structured format. This is the best option but there are other sites that don't allow users to access large amounts of data in a structured form or they are simply not that technologically advanced. In that situation, it's best to use Web Scraping to scrape the website for data.

How does Web Scraping Work? It involves two main parts, fetching and extracting. Fetching is the downloading of a page (which a browser does when a user views a page). Therefore, web crawling is a main component of web scraping, to fetch pages for later processing. Once fetched, then extraction can take place. The content of a page may

be parsed, searched, reformatted, its data copied into a spreadsheet or loaded into a database. Web scrapers normally take out something from the page to make use out of it somewhere else. The types of web scrapers can be divided based on various criteria such as pre-built or self-built, browser extension or software web scrapers, and cloud or local web scrapers. Programming languages that can be used for web scraping are javascript, ruby, C++, php, and Python(which is the most popular language for web scraping). Now the final question is, What is Web Scraping used for? Well, it can be used for tons of things from professional to unprofessional, formal to informal as long as it is being used legally. It can be used for News Monitoring, Price monitoring, Market Research, etc. There are various techniques that are used for the above uses, the basic being copy and paste. Other types are text pattern matching, HTTP programming, etc. Web Scraping is a powerful process and everything that it involves can also be used illegally, so before starting scraping people should be aware of the harms that can be done using web scraping and how to use web scraping legally without getting yourself into problems.

## **NONTECHNICAL ARTICLES BY FACULTY**

### **Work from Home**

**Dr. S.Geetha ,  
Associate Professor,  
Department of ISE,  
CMR Institute of Technology  
Bengaluru**

Work from home (WFH) is a growing trend in today's work environment, in which employees can easily plug-in from just anywhere they are. A work from home policy is nothing but an agreement between the employer and the employees who prefer to have the work from home privileges. The policy defines the expectations, responsibilities, the eligibility, and the other work from home guidelines. In short, it ensures that all employees understand what is required of them when they choose to work from home. While some companies have a regular option of remote working, others take it up during emergencies. Like, look at the current condition. Coronavirus has sparked a revolution in the WFH scenario. As the terror of Covid-19 continues to spread, many employers have already considered the home office set up quite seriously, to avoid reduced productivity. Top companies like Google and Microsoft have arranged for enhanced teleconferencing tools to make work from home more comfortable than ever.

Working from home is often subjected to distractions and it becomes difficult to set boundaries between personal and professional lives. Therefore, it is extremely important to set meaning goals for employees to ensure effective utilization of time. Layout a new structure of goals keeping in mind the new setting. Each employee needs to Set clear deliverables and specific metrics that will enable you to track outcomes and measure results effectively. Attending virtual meetings from time to time to take updates and ensure that things are on track. Flexible work arrangements not only benefit the employee but the employer as well. Remote work, work from home, and telecommuting can truly enhance productivity, happiness, reduce employee attrition, and decrease the businesses' overall operating costs.

## NONTECHNICAL ARTICLES BY STUDENTS

### SPORTS

M Rakshitha

1CR18IS114



There goes a good proverb —” **All work and no play make Jack a dull boy** “.

Games and sports are not only important for success in studio, but it is important for success in every walks of our life. Games and sports include all outdoor and indoor games and athletics. In ancient Greece they formed the principal part of education. In the advanced countries of the present-day also they are a regular feature of the school and college curriculum. The importance of games and sports can never be minimized. First of all, they are good exercises and help to build fine, physique for the boys and girls. They make them mentally alert and physically strong. Further, good health is one of the most important benefits of games and sports. students learn to cope with difficult situations. By displaying their feats before many spectators, they can overcome their nervousness. games and sports are good diversions and give them the energy to learn their lessons well. It gives the necessary break from the everyday monotonous life. games and sports help to build a sense of cooperation and team spirit in an individual. I play throwball and professionally trained in the game and have represented the national level during my school and won two gold medals for Bangalore region.