

CMRIT

CONNECT



#1

IN RANKING OF INSTITUTION INNOVATION COUNCILS
 BY MINISTRY OF EDUCATION INNOVATION COUNCIL
 IN THE SOUTH-WEST ZONE



218

FACULTY PATENTS FILED
 IN 2020-21



RAHUL RAJ DEV SAHOO
 INR 21.3 LPA OFFER BY
 SPACEGRAB, JAPAN



HARSH GUPTA
 R7WORLD
 BUSINESS VENTURE UNDER MSME



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EDITORIAL MESSAGE

Dear Readers,

"If you think education is expensive, try ignorance."
Andy McIntyre

As the world is going through a dark phase of life due to Covid-19, CMR IT has stood in solidarity with the students, faculty, state and central governments in fighting against Covid-19. Recognising the importance of teaching and learning, CMR IT has not left any stone unturned. Higher semesters' classes are being held online and foundation classes for the first year students have already begun in an online mode. In this issue, some articles, students and faculty achievements, and several events and workshops conducted in college have been highlighted.

The whole Editorial Team would like to thank all the members for their contributions in breathing life to the pages of Volume 4, Issue 2 of CMRIT Connect

Happy Reading!

MESSAGE FROM THE PRINCIPAL

Dear Reader,

It has been a tough 2020 for all of us as we continue our fight with COVID-19. Hopefully the battle will end sooner than later albeit with wide-spread casualties as well as huge emotional and economic losses across the countries.

The higher-education institutions are now permitted to open up for conducting laboratories and special classes for PG and senior students. The new 2020 batch's sessions are starting from 14th Dec.'20 and CMRIT has taken various measures to ensure that on-line teaching is as effective as possible for professional learnings and overall development of our students.

Despite the current challenges, CMRIT has continued its focus on innovation. We were ranked #1 in the south-west zone in the Institution Innovation Councils ranking by the ministry of education. Our faculty members have filed 218 patents in the current academic year and their 25 start-ups ideas have qualified for the pre-incubation phase. Even the number of quality research papers published by our faculty has crossed 150 mark this year.

The campus placement has been much better than expected with many students securing high paying jobs in reputed companies. We are happy to share that one of our students, Mr. Rahul



Sahoo, got an offer of over 21 lakhs rupees per annum from SpaceGrab, a Japanese company. The other good news is that one of our students, Mr. Giridhar who had lost complete vision in his 2nd year, has successfully completed his mechanical engineering this year with support from faculty members and well-wishers. We wish all our graduating students a great success in their future endeavours.

Tie-Your-LACES (TYL) program is working well for the placements of our students. We have included aptitude and programming skills as part of the regular internal assessments, organized training sessions on foreign languages, and conducted multiple hackathons to give a real world exposure to our students.

On the cultural front, CMRIT has collaborated with SPIC MACAY (Society for the Promotion of Indian Classical Music and Culture Amongst Youth) to enrich the existing talent. Aura'20, an inter-departmental cultural fest, was also successfully organized by our students.

"We wish all our graduating students a great success in their future endeavours"

Many more exciting activities have happened in the last quarter. You will find them all in this edition of CMRIT Connect!

Dr. Sanjay Jain
Principal

MESSAGE FROM THE VICE-PRINCIPAL



I am delighted to extend my heartfelt greetings to the readers of the Issue of CMRIT Connect Vol 4, Issue 2 newsletter.

The newsletter provides the platform to present our student and staff achievements of this quarter. As we are all aware, the future of our nation depends on technological empowerment of the youth, therefore CMRIT emphasize to impart

high quality education through various multidisciplinary activities. I take this opportunity to congratulate all our achievers and wish them a great success.

I believe, the newsletter giving some glimpse towards achieving our vision.

Dr. B. Narasimha Murthy
Vice Principal

HOD'S COLUMN

While COVID-19 pandemic adversely affected the mankind, it has also brought the best of our students and faculty. Even though, the conventional offline classes came to a stop, learning of our students never stopped. Off course, online classes cannot be a substitute for conventional offline classes. But, as the situation demanded, our students stepped up to the challenge and showed great commitment to the cause of keeping their education going. Their enthusiasm and determination is worth tons of praises and accolades. They participated not only in online classes, but also in online extracurricular activities. The performance of students in online internal assessment tests has been outstanding. It was an unprecedented challenge for faculty as well as they faced with the daunting task of keeping their students motivated. I am proud to see how the faculty adopted to the new mode of teaching and created ample opportunities for the students to learn. Our faculty kept in constant touch with

our students and provided the necessary emotional support to the students to keep up their enthusiasm. Several of our final year engineering and master degree students bagged excellent placement offers as well from reputed multinational companies. Overall, I am extremely glad to see how the CMRIT fraternity is handling this challenging situation successfully. Moving forward, we look to continue our efforts towards imparting quality education to our students, creating an environment to constantly encourage them to dream big, aim high and achieve greater heights in their personal and professional life. My best wishes to the team of faculty and students who contributed to this edition of newsletter. Excellent work. Keep it up.

Prof. Mahesh Kumar Jha
Head of the Department
Telecommunication Engineering



INNOVATION, STARTUPS AND CoEs

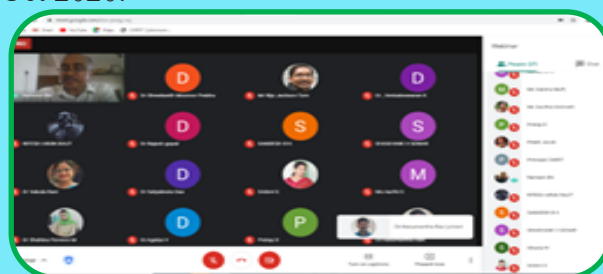
- **Institution's Innovation Council (IIC) 3.0:** In the year 2018, the Ministry of Education (MoE) through MoE's Innovation Cell (MIC) launched the Institution's Innovation Council (IIC) program in collaboration with AICTE for Higher Educational Institutions (HEIs) to systematically foster the culture of innovation and start-up ecosystem in education institutions. After achieving success in IIC 2.0 with top ranking and 5 star rating in south west zone, CMRIT constituted IIC 3.0 council with following members aiming next milestone in this direction:

S.N	Name of Member	Dept.	Key Role/ Position assigned in IIC3.0
1	Dr. Agalya V	EEE	President
2	Dr. Rijo Jackson	CSE	Vice-president
3	Prof. Mahesh Kumar	TCE	Convener
4	Dr Shahina Parveen M	ISE	Innovation Activity Coordinator
5	Dr. Shivanna D M	MECH	IPR Activity Coordinator
6	Prof. Manoj Challa	CSE	Social Media Coordinator
7	Prof. Srinivas Reddy	MECH	ARIIA coordinator
8	Prof. Swathi Y	ISE	NIRF Coordinator
9	Prof. Gomathi T	MCA	Internship Activity Coordinator
10	Dr. Elumalai R	ECE	Start-up Activity Coordinator

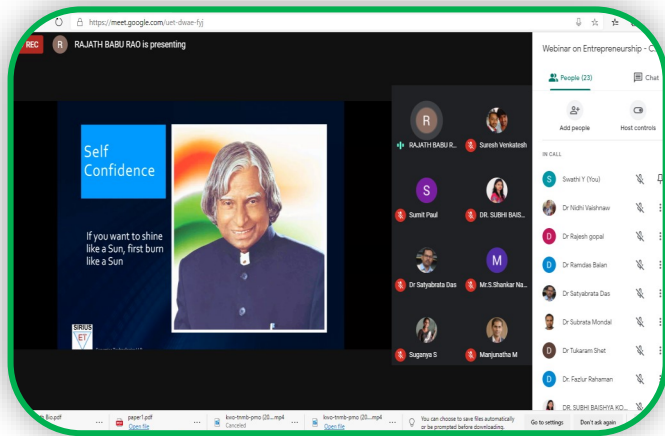
- CMRIT faculty members have come out with **68 innovative start-ups ideas**. Out of these, 25 ideas were given go ahead after the initial review. These ideas are now going through the pre-incubation phase. Each department is working on 2~3 start-up ideas and have presented their initial business plans.
- **Prof. Kodandapani D, Prof.Chidhananda R S, Prof. Srinivas Reddy Mungara and Prof.PhaniKumar** had generated revenue amount of Rs.4,75,000/- through An Hestia (Fine sands LLP supported), Say trees NGO and Cute Apat (Devahuthi supported).
- Department of ISE organized Training Program

on "I&E Start-up" by **Prof. Shahina Parveen** from 8th Sep to 18th Sep 2020.

- Organized online expert lecture on "**Motivation speech about Entrepreneurship**" by **Vineeth Muthanna & Vinay M Sharma**, Switch Mobility on 29th Sep 2020.
- IQAC Organized online guest lecture on "**My Journey as an Entrepreneur**" by **Ramesh BN**, Director at Belavadi Technology Solutions on 22nd Oct 2020.



- IQAC Organized online guest lecture on **“Entrepreneurship - Challenges and Way Forward”** by **Mr.Rajat Rao**, Director, Ecoamica Technologies LLP and Inbioz Technologies Pvt Ltd on 23rd Nov 2020.



CENTER OF EXCELLENCEs

COE - Additive Manufacturing -

- In association with Makerspace organized one day workshop on **“Digital fabrication and 3D printing”** on 21.Sept.2020.

COE - Machine Intelligence & Big Data-

- **Prof. Jagadishwari** of CSE department served as resource person at “A primer to Data Analytics with Machine learning” organized by CMRIT on 25th Sep 2020.
- The Department of CSE in association with **Machine Intelligence & Big Data COE** have signed a MOU with Kalpavruksha Travel



Solutions Pvt. Ltd on 23rd Oct 2020 to develop a Mobile Application for IOT Based Vending Machine.

- **Prof.Premkumar Ramesh** and **Prof. Kartheek GCR** has received consultancy amount of Rs.36,000/- for the project titled **“VAHINI - Automotive electric vehicle for irrigation”** from Samavritti Innovations.

COE - Signal Processing-

- **Prof. Binish Fatimah** served as a Journal reviewer for Biomedical Signal Processing and Control Journal.
- **Prof. Binish Fatimah** served as a Journal reviewer for IEEE B-HTC 2020

COE - Intelligent Human Computer Interaction-

- **Prof. V.Ilango** served as a resource person in ACM Panel Discussion organized by Christ University on 26th Nov 2020.

COE - Financial Markets-

- Organised a STTP on **“Optimum portfolio Construction”** by **Prof. Namita, Prof. Kathari Santosh and Prof. Kokila**, CMRIT from 23rd to 27th Nov 2020.

COE - Data driven IoT-

- Organized online seminar on **“Industry applications of IoT based Block chain”** by **Prof. S.Geetha**, CMRIT on 27th Nov 2020.

COE – Intelligent Robotics System-

- Organised a training program on “**Introduction to Android programming and Interfacing for Robotic Applications**” by **Prof. Velraj Kumar, Prof.Ramesh P and Prof. Sumit Mohanty**, CMRIT from 9th to 13th Nov 2020.
- Organized a webinar on “**Soft Cyborgs - An emerging technology to combating robotics autonomy**” by **Prof.Dr. S.Andrews**, CSE, Mahendra Engineering College, Nammakal on 18th Nov 2020.
- **Prof.P.Velraj Kumar, Prof.P.Ramesh and Prof.Sumit Mohanty** has generated consultancy amount of Rs.3,500/- from Online STTP on Introduction to Android Programming and Interfacing for Robotic Applications.
- **Prof.P.Velraj Kumar** has presented a paper titled “Internet of Things (IoT) based Smart Garbage Monitoring System” in Indonesian Journal of Electrical Engineering and Computer science.
- **Prof.P.Velraj Kumar** has presented a paper titled “Development of Six Axes Robotic Arm Manipulator using Android Application” in Solid State Technology.

CoE-Materials Science/ Sensors & Nano electronics

- **Prof. Tukaram Seth , Prof. Chaitanya & Prof. Ramdas** has generated consultancy amount of Rs.35,000/- from Online STTP on Materials Synthesis, Characterization Tools & Data Analysis.

CoE - Metallurgical Engineering

- **Prof.Bijayani Panda** has presented a paper titled

“Corrosion Resistant Superhydrophobic Aluminum Alloy: A Review” in iCADMA 2020.

- **Prof.Bijayani Panda and Prof. Shivanna D M** has presented a paper titled “Effect of a T6 Aging Treatment on the Corrosion Behaviour of in-situ AlxNiy Reinforced AA6061 Composite” in Materials Today Proceeding.
- **Prof.Bijayani Panda** has presented a paper titled “A Review on the Challenges in Welding of Aluminium AA2219 Alloy” in Advances in Lightweight Materials and Structures. Springer Proceedings in Materials.
- **Prof.Bijayani Panda and Prof. Shivanna D M** has presented a paper titled “Corrosion behaviour of in-situ AlxNiy reinforced AA6061 Composite” in ICAMS 2020.
- **Prof.Bijayani Panda and Prof. Shreyas P** has presented a paper titled “Effect of Coating Thickness on the Corrosion Behavior of Galvanized Steel in 3.5 % NaCl Solution” in ICAMS 2020.

CoE-Integrated Circuit

- **Prof.Amit Jain** has presented a paper titled “Analysis of split gate dielectric and charge modulated SON FET” in ICCDN 2020, Springer.
- **Prof.Amit Jain** has presented a paper titled “Design of CMOS Active Inductor for RF IC Applications-Review” in ICICI 2020, Springer.

CoE-Embedded System

- Organized an online seminar on “**Model Based Development(MBD)**” by **Dr. Lakshmanaprabu S K**, a MBD expert, Vestas on Nov7, 2020.

PATENTS PUBLISHED AND SUBMITTED

S No	Faculty Involved	Dept	Title of the patent	Filed / Published
1	Prof. Abdul Wahid Nasir	ECE	Light Reflecting Mechanism For Focussing Of Torch Light In Smartphones	Filed
2	Prof. Aritri Debnath	ECE	Voice Activated Handwriting Machine For Specially Abled	Filed
3	Prof. Chetan H	ECE	Smart Data Transfer Machine	Filed
4	Prof. Chetan H	ECE	Development Of Elctron Mechanical Seed Gun	Filed
5	Prof. Eisha Akanksha	ECE	Artificial Intelligence Based Controlled Sprinkling Using Regular And Weed Plant Classification	Filed
6	Prof.Harsha B K	ECE	Information Locker System For Android Mobile Users Using Steganography Technique	Granted
7	Prof.Imtiyaz Ahmed B K	ECE	Smart Elevator To Eliminate Left Out Or Dropped Instructions Or Commands	Filed
8	Prof.Krishna Teja, Prof.Rahul Tiwari, Prof.Sachin Aralikatti, Prof. Venkateswaran K	ECE	Integrated Medical Face Shield With LED System	Filed
9	Prof.Manohar Valleti, , Prof. Venkateswaran K	ECE	Semi-Automated Lemon Fruit Picker System From Tree And Segregation Of Fruit Based On Size	Filed
10	Prof.Monika Singh,Prof. Mahesh Kumar Jha and Prof. Raveesh Hegde	ECE	Fluid Container With Temperature Sensing Device	Filed
11	Prof.Preethi A, Prof.Sutapa Sarkar, Prof.Vijayalaxmi A, Prof.Suganya S, Prof.Suganya J And Prof.T Ninikrishna	ECE	Intelligent Natural Light Management System For Indoor Spaces	Filed
12	Prof.Pappa M,Prof.Elumalai R, Prof.Sharmila K.P	ECE	Portable Cooling Device For Medical Applications	Filed
13	Prof.Rahul Tiwari, Prof.Krishna Teja, Prof.Sachin Aralikatti, Prof. Venkateswaran K	ECE	Gravity Based Smart Mopping System	Filed
14	Prof. Sunil Kumar KH	ECE	Smart Data Transfer Machine	Filed
15	Prof. Sunil Kumar KH	ECE	Development Of Elctron Mechanical Seed Gun	Filed
16	Sutapa Sarkar, Preethi A, Vijayalaxmi A	ECE	Defogging Goggles	Filed
17	Prof.Sridevi S	ECE	Fastener Based Multiladle Holders	Filed
18	Prof.Sachin Aralikatti,Prof. Rahul Tiwari, Prof.Krishna Teja,Prof. Venkateswaran K	ECE	Adjustable Mask Holder	Filed

19	Prof.Suganya S , Prof.Preethi A, Prof.Chitralekha G, Prof.Jyothi M Prof..Sharmila	ECE	Touchless Door Opener With Sanitizer Storage	Filed
20	K.P,Prof.Elumalai R,Prof. Pappa M,	ECE	Improved Structure For Toothpaste Tube	Filed
21	Prof.Sushma B	ECE	Machine Vision Based Air Cooling Device Control	Filed
22	Prof.Vijayalaxmi A, Prof.Sutapa ,Prof. Preethi A	ECE	Water Tank Cleaning System Using Iot	Filed
23	Prof.Anju Das	EEE	Heatable Compact Food Container With Temperature Monitoring	Filed
24	Prof.V.Agalya	EEE	Wrist Stress Releasing Semi-Rotatable Handlebar For Bike	Published
25	Prof. Arijit Datta	EEE	Optical Waveguide-Based Ultra-Sensitive Refractive Index Sensor Realized By Shining A Mathieu-Gauss Beam	Published
26	Prof.K.Chitra Prof.M.Lakshmanan Prof. Viji K	EEE	Weed Killer Sprayer With Adjustable Height Inverse Bin Stick To Protect Crop	Published
	Prof.Chitralekha G	EEE	Compact Wireless Voice Controlled Personal Sanitizer With GPS	Filed
27	Prof.Geetanjali	EEE	IOT Based Integrated Vehicle Health Management System For Motorbikes	Filed
28	Prof. Hemachandra G	EEE	Integrated Hybrid Solar Brush For Cleaning The Dual Axis Sun Tracking Modules	Filed
29	Prof.Keka Mukhopadhyaya	EEE	A Clean Air Reusable Face Covering Device	Published
30	Prof.Kashif Ahmed	EEE	Tail Lighting System For Motorcycles	Filed
31	Prof.D Kodandapani Prof. Ramesh P Prof. Velraj Kumar P	EEE	Flexible Mobile Stand For Online Classes	Filed
32	Prof.Lokasree B S Prof.Reshma P Eldho Prof.Nithara P V Prof.Priyanka Priyadarshini Padhi	EEE	Memory Based Smart Board	Filed
33	Prof.Nithara P V Prof.Reshma P Eldho Prof.Priyanka Priyadarshini Padhi Prof.Lokasree B S	EEE	Coconut Shell Based Tracking Interactive Bangle For Girl Kids	Filed

34	Prof.Parvathy Thampi M.S.	EEE	Robust Inverted Pendulum Design Through Fuzzy Based H _∞ Control	Filed
35	Prof.Priyanka Priyadarshini Padhi Profreshma P Eldho Prof.Nithara P V Prof.Lokasree B S	EEE	Iot Based Smart Oil Dispenser	Filed
36	Prof.Reshma P Eldho Prof.Nithara P V Prof.Priyanka Priyadarshini Padhi Prof.Lokasree B S	EEE	Smart And Handy Shopping Device Providing Customer Assistance For Shopping	Filed
37	Prof.Ranjitha R	EEE	Portable Wi-Fi Mobile Router	Filed
38	Prof.P.Ramesh Prof. Velraj Kumar P Prof.D Kodandapani	EEE	Smart Bottle With Heating And Cooling Device Using Peltier Equipment	Filed
39	Prof.Sanitha Michail C	EEE	A Self Ventilating Hand Glove For Improved Air Circulation And Human Comfort	Published
40	Prof.Shailendra B	EEE	System And Method For Real-Time Water Use Audit And Detection Of Contamination In A Water Distribution Network	Filed
41	Prof.Sumit Mohanty	EEE	Iot Based Smart System For Distribution & Monitoring Of Electricity For Community	Filed
42	Prof.P.Velraj Kumar Prof.P.Ramesh Prof.D.Kodandapani	EEE	Badminton Court Net With LED Indicator To Indicate the Service Fault	Filed
43	Prof. Zahid	EEE	Portable Three Phase Supply For Small Scale Applications	Filed
44	Prof.Kokila M.S.	MBA	A Fluid Container With Herbal Bristle	Filed
45	Prof.Manjunatha S.	MBA	Wearable Safety Button With RFID	Filed
46	Prof.Namita P. Konnur	MBA	Multifunctional Kitchen Spatula	Filed
47	Prof.Preksha Yadav	MBA	Touch-Free Door Opener	Filed
48	Prof.Prakash B Yaragol	MBA	Roll-On Hand Wash	Filed
49	Prof.Piyali R Chowdhury	MBA	Facial Mask	Filed
50	Prof.Santosh Kathari	MBA	A Leaves Peeling Device	Filed
51	Prof.Sabeha Mufti	MBA	Speed Breaker Electricity Generation	Filed
52	Prof.Akhilaa	ISE	A System And Method For Enabling Digital Classroom	Filed
53	Prof.Ashwini Doke	ISE	A Technique For PPPOE Rapid Commit	Filed

54	Prof.Anu Jose	ISE	A Blockchain Based Secure Pharmacovigilance Sytem	Filed
55	Prof.Anand R	ISE	A System And Method To Monitor Road Traffic In	Filed
56	Prof.Bineet Kumar Jha	ISE	Internet Of Things (Iot) Based Smart Health Monitoring System With Long Range (Lora) Wireless Network	Filed
57	Prof.R.Chinnaiyan	ISE	202041041913 - System And Method For Intelligent Wearable Garments For Elderly And High Risk Heart Patients	Filed
58	Prof.Dhanya Viswanath	ISE	A System And Method To Prevent Potential Misuse Of A Cooking Gas Cyliner Through Biometrics Based Control Mechanism	Filed
59	Prof. S.Geetha, Prof.Anand R	ISE	Remedy For Overflow Identification Cycles For Intellectually Disabled Women Using Mensuration Cups With Iot	Filed
60	Prof. R Joshua Samuel Raj	ISE	Smart Agri-Bot With Seed Sowing, Nutrients And Leaf Disease Identification For Better Crop Yield	Filed
61	Prof.Prasad B S	ISE	"System And Method For Public Utility Service Monitoring And Controlling Using Internet Of Things (Iot) Through Social Media Based Community Participation"	Filed
62	Prof.Shreekanth M Prabhu	ISE	System And Methods For Designing And Operating Collaborativedisintermediated File Systems	Filed
63	Prof.Shilpa Pande	ISE	A Smart Device Containing Oil, Burnt Through A Wick For Illumination Using Iot Infrastructure	Filed
64	Prof.Savitha Hiremath	ISE	Ranking Method For Sentiment Classification Of Tweets With Contradicting Emojis	Published
65	Prof.Shahina Parveen M	ISE	Smart School Bag For Assisting And Protecting The School Students By Geo Tracking.	Filed& Published
66	Prof.Swathi.Y	ISE	System And Method To Embed A Natural Perfume Dispenser In Analog Watch	Filed
67	Prof.Sudhakar K. N	ISE	Portable Medical Container With Temperature Gauge: A Medical Aid For Preserving Temperature Critical Medicine	Filed
68	Prof.Sheetal R	ISE	Method And Apparatus For Self Monitoring Of Alcohol Consumption	Filed
69	Prof.M Shahina Parveen	ISE	The Severity Level And Early Prediction Of Covid-19 Using CEDCNN Classifier	Filed& Published
70	Prof.Shreekanth M Prabhu	ISE	System And Method For Implementing Trusted Digital Payment Platform	Filed
71	Prof.Vidya U	ISE	Enhanced Fusional Contactless Biometric Security System For Iiot	Filed
72	Prof.Anjali Gupta	CSE	Automatic Whistle Based Smart Watering Pot	Filed

73	Prof.S.Aarathi, Prof. Kavitha	CSE	IOT Based Smart Device In Synthetic Pigment Identification	Filed
74	Prof.Gopika D,Prof.Sherly Noel	CSE	Replenishment Organiser For Tissue Paper	Filed
75	Prof.Gopika D,Prof.Sherly Noel	CSE	Smart Iot Based Insect Repellent System	Filed
76	Prof.Hemanth Kumar	CSE	An Easy Plant Cultivating System Without Soil	Filed
77	Prof. Jhansi Rani P, Prof. Preethi Sheba Hepsiba	CSE	Device To Limit The Overweight Of A Washing Unit Of A Clothes Washer	Filed
78	Prof.Kiran Babu	CSE	System And Method For Smart Wristwatch For Visually Impaired	Filed
79	Prof.Kartheek G C R	CSE	A System And Method For Eliminating Airborne Allergies	Filed
80	Prof. Kavitha, Prof.S. Aarthi	CSE	Smart Iot Based Intravenous Infusion System	Filed
81	Prof.Manoj Challa	CSE	System And Method For A SMART Coffee / Tea Thermos	Filed
82	Prof. Preethi Sheba Hepsiba, Prof. Jhansi Rani P	CSE	Smart Online Teaching Tool	Filed
83	Prof.Poonam Tijare, Prof. Jhansi Rani P	CSE	A System To Detect And Predict An Event On Social Media Platforms	Filed
84	Prof. Prem Kumar Ramesh	CSE	Shape Retaining Scalable Electric Heating Pad Tiles	Filed
85	Prof.Poonam Tijare, Arnab Das Prateek Day Preeti	CSE	Operating Computer And Similar Gadgets With Mouse Shaft Instigation Using Facial Gestures For People	Filed
86	Prof. Rijo Jackson Tom, Prof.Pratham Majumder, Prof.Vivia Mary John	CSE	An Iot Edge Based Vehicular System And A Method Thereof	Filed
87	Prof.Rijo Jackson Tom	CSE	An Iot Based Smart And Efficient Wireless Power Transmission System	Granted
88	Prof. Rijo Jackson Tom, Prof.Pratham Majumder, Prof.Vivia	CSE	An Iot Based Smart Air Purifier And A System Thereof	Filed

89	Prof. Rijo Jackson Tom, Prof.Pratham Majumder, Prof.Vivia Mary John	CSE	A Privacy Preserving Smart Water Bottle For Health Care Applications	Filed
90	Prof.Sreedevi N, Prof. Jagadishwari, Prof.Savitha S	CSE	Battery Comb With Warm Oil Dispenser	Filed
91	Prof.Sreedevi N, Prof. Jagadishwari, Profsavitha S	CSE	COVID-19 Safety Cane For Visually Impaired	Filed
92	Prof.Sreedevi N, Prof. Jagadishwari, Profsavitha S	CSE	Automated Touchless Door Alarm With Non-Contact Temperature Sensing And	Filed
93	Prof.Sreekanth Malladi & Prof. Jhansi Rani P	CSE	Security Enhanced UPI With Geographic Information	Filed
94	Prof.Shivraj B,Prof.Sagarika Behera,Prof. Shanthi M B, Prof.D. Sudha	CSE	A Sensor Based Wiper Apparatus For Helmet	Filed
95	Prof.Shivraj B,Prof.Sagarika Behera,Prof. Shanthi M B, Prof.D. Sudha	CSE	Smart Helmet Using Millimeter Wave Radar	Filed
96	Prof.Shivraj B,Prof.Sagarika Behera,Prof. Shanthi M B, Prof.D. Sudha	CSE	Automated Unit For Mango Segregation	Filed
97	Prof.Shivraj B,Prof.Sagarika Behera,Prof. Shanthi M B, Prof.D. Sudha	CSE	Roller Based Black Board Cleaner: A Teaching Aid	Filed
98	Prof. Shanthi M. B	CSE	Touch-Less Laser Based Finger Sensing For Keys And Keyboards	Filed
99	Prof.Shyam P Joy	CSE	Smart Toilet Cistern	Filed
100	Prof.Smitha N, Prof.Savitha NJ, Prof.Rubini	CSE	Smart Apparatus For Seed Germination	Filed
102	Prof.Smitha N, Prof.Savitha NJ, Prof.Rubini	CSE	A Motion, Pressure And Proximity Sensitive Content Creation Device	Filed

103	Prof. Antony Lilly Grace	Physics	Portable Hand-Held Device For Viewing Distance Objects	Filed
104	Prof. Rajesh Gopal	Physics	Gyroscope Assisted Portable Hand Held Fan	Filed
105	Prof. Ramdas Balan	Physics	Hydrothermal Preparation Of Zn ₂ sno ₄ /C Nanocomposite And Application Thereof	Filed
106	Prof. S S Hegde	Physics	Method For Synthesis Of Stoichiometric Proportioned Tin Mono Sulfide Semiconductor	Filed
107	Prof. Suvitha	Physics	Drip Irrigation For Pot Module	Published
108	Prof. Sudarshana	Physics	Tea Infused Candy	Filed
109	Prof. Tukaram Shet	Physics	Foot Controlled Shock Pulse Generating Apparatus And Method	Filed
110	Prof. Chaitanya Lekshmi	Chemistry	A Portable Nano-Biosensor For Catechol Estimation In Aqueous Medium	Filed
111	Prof. Fazlur Rahaman	Chemistry	Low Cost Rodent Guard Floor Drain	Filed
112	Prof. Phani Pullela	Chemistry	An Intelligent Flexible Haid Band	Filed
113	Prof. Priti Gupta And Prof. Prabhat Gautam	Chemistry	USER FRIENDLY LAB COAT	Filed
114	Prof. Prabhat Gautam And Prof. Priti Gupta	Chemistry	Head Covering With Multifunctional Support	Filed
115	Prof. Subhi Baishya	Chemistry	A Universal Attachment Assembly For Face Mask	Filed
116	Prof. Subrata Mondal	Chemistry	Low Cost Co ₂ Emission Control Device	Filed
117	Prof. Asha K N	Maths	1. A Detectable, Detachable Support For A Beverage Container 2. An Extension For Food Carrying Device With A Rigid Liner At The Base Of Device	Filed
118	Prof. Bharti Sharma	Maths	1. A Detectable, Detachable Support For A Beverage Container 2. An Extension For Food Carrying Device With A Rigid Liner At The Base Of Device	Filed
119	Prof. Girisha	Maths	Organic Body Washing Devicex	Filed
120	Prof. Hanumantha Ravi	Maths	A Novel Device To Utilize Ocean Wave Energy For Low Power Appliances	Filed
121	Prof. Meenakshi	Maths	A Special Cleaning Solution With Out Chemicals For Removing Grease	Filed
122	Prof. Nidhi	Maths	A Low Cost Hand Made Electromagnetic Damping Device For Magnetic Oscillator	Filed
123	Prof. Prathap	Maths	Magnetically Assisted Swinging Device	Filed
124	Prof. Rajendra	Maths	Foldable Shaving Device For Facial Hair	Filed
125	Prof. Shweta	Maths	A multipurpose User Friendly Compact Straining/ Sieving Tool For Fluids And Solids	Filed
126	Prof. Shankar	Maths	A Low Cost Handmade Ac Voltage Generator	Filed

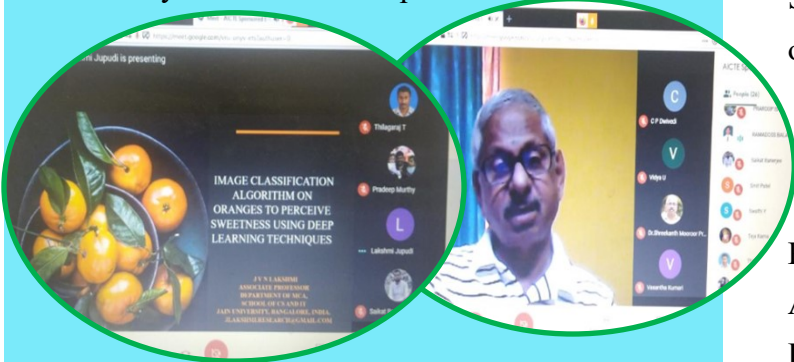
127	Prof.. Thulasi	Maths	A Combined Propulsion System	Filed
128	Prof. Uma	Maths	Opener For Vacuum Sealed Box	Filed
129	Prof.Aswini N	MCA	Device For Cleaning Dust Particles From A Component	Filed
130	Prof. Phani Pullela Group (Prof Srinivas Reddy, Prof Chidhananda, Prof Kodandapani, & Phani)	Chemistry	Trademark DIN Harmania Startup	Granted
131	Prof. Phani Pullela Group (Prof Srinivas Reddy, Prof Chidhananda, Prof Kodandapani, & Phani)	Chemistry	Trademark DIN Harmania Startup	Granted
132	Prof.Ashutosh Srivastava	ECE	Noise Cancellation Earpiece For Travellers	Filed
133	Prof.Ashutosh Srivastava	ECE	Insect Movement Detection Using Light Weight RFID Tag:	Filed
134	Prof.Arunkumar T	Mech	The Method And System Of Biogas Production From Cow Dung And Cabbage	Published
135	Prof.Arunkumar T	Mech	Non-Pneumatic Resilient Tire	Published
136	Prof.Arunkumar T	Mech	Novel Development Process For Homogeneous Distributions Of Nanoparticles With Aluminium Alloys	Published
137	Prof.Arunkumar T	Mech	Method For Improved Production Of Methane In Biogas	Published
138	Prof. Bijayani Panda	Mech	Development Of Corrosion-Resistant Super -Hydrophobic Coating	Filed
139	Prof.Gopi S	Mech	Method For Improved Production Of Methane In Biogas	Published
140	Prof.Gopi S	Mech	Process Capability Measuring Device For Bolts And Nuts Using Internet Of Things (Iot)	Filed
141	Prof.Gopi S	Mech	Low Cost Agricultural Plantation Equipment	Filed
142	Prof. Harish Babu	Mech	Tomato Sauce Making Machine	Filed
143	Prof.H Manikandan, Prof.Prashant S. Hatti, Prof.Harisha P	Mech	Digital Mini Drafter	Published
144	Prof.H Manikandan, Prof.Prashant S. Hatti, Prof.Harisha P , Prof.Cyril S.	Mech	Locking Mechanism For Puttu Making Cylinder	Published
145	Prof.H Manikandan, Prof.Prashant S. Hatti, Prof.Harisha P , Prof.Cyril S.	Mech	Integrated Heating Mechanism For Vacuum Flask	Published
146	Prof.Narendra N	Mech	Method For Improved Production Of Methane In Biogas	Published
147	Prof.Narendra N	Mech	compressible fuel carrier	Published

148	Prof.Narendra N	Mech	process capability measuring device for bolts and nuts using internet of things (iot)	Filed
149	Prof.Narendra N	Mech	low cost agricultural plantation equipment	Filed
150	Prof.Puneeth Kumar N	Mech	compressible fuel carrier	Published
151	Prof.Puneeth Kumar N	Mech	low cost agricultural plantation equipment	Filed
152	Prof.Puneeth Kumar N	Mech	method for improved production of methane in biogas	Published
153	Prof.Manjunath V Gudur, Prof.Narendra Kumar	Mech	A Digital Question Paper Display Device	Filed
154	Prof.B.Rajendra Prasad Reddy	Mech	A Digital Protractor	Filed
155	Prof. S Ranachandran	Mech	Convex Conical Receiver With Rim In Concentrated Solar Technology	Published
156	Prof.DAS SATYABRATA	Mech	Portable Sprout Making Container	Filed
157	Prof.Venkatesh Naik	Mech	Low Cost Agricultural Plantation Equipment	Filed
158	Prof.Venkatesh Naik	Mech	Compressible Fuel Carrier	Published
159	Prof.Venkatesh Naik	Mech	Method For Improved Production Of Methane In Biogas	Published
160	Prof.Venkatesh Naik	Mech	Process Capability Measuring Device For Bolts And Nuts Using Internet Of Things (Iot)	Filed
161	Prof.Vinay M N	Mech	Combination Of Anti-Riot Shield With Chair	Filed
162	Ms. Varsha Pawar	MCA	Building Family Tree with birth certificate and preserving Using Block Chain	Filed
163	Ms. Moumita Roy	MCA	Supply chain of medicines to regulate sale of non-over the counter medicine using blockchain technology	Filed
164	Ms. Gomathi T , Ms. Uma B	MCA	Ambiguity Testing for Security Requirements	Published
165	Ms. Gomathi T , Ms. Uma B	MCA	Seed Packaging using Soluble Film	Filed
166	Ms. Swati Mathur Dr. Anu Manchanda	MCA	System and method to detect multi disease co-occurrence on apple leaf using multi-label classification	Filed
167	Dr. Anu Manchanda Ms. Swati Mathur	MCA	Enhancing the performance of Banana Leaf Disease Detection and Prediction System by Incorporating Image processing and Deep learning	Filed
168	Dr A Abdul Rasheed	MCA	Trust-Oriented Privacy Preservation in online social Networking Sites	Filed
169	Dr. V.L. Helen Josephine	MCA	LPG stove controller system using IoT Transaction	Filed
170	Ms. Neha Agrawal	MCA	Respiratory level optimizer using image for corona severity detection	Filed
171	Dr .V Ilango	MCA	System and method for visual and speech impaired for digital learning	Filed

172	Ms. Ashwini Patil	MCA	Leukemia detection using portable microscopic image device and smartphone	Filed
173	Sreelakshmi G	CIVIL	An intellegent Biocomposter Bin	Filed
174	Divya Viswanath	CIVIL	Combination Clip-on Button Sensor for Non-Intrusive Temperature Measurement and Alerting	Filed
175	Narendra Kumar	CIVIL	A Disinfecting spray tunnel with motion sensor combined with IR based Temperature sensor and pulse Oximeter	Filed
176	Vibha N Dalawai	CIVIL	Stay safe band- A health monitoring device	Filed
177	Dr. Arunkumar Yadav	CIVIL	Distance Measurement Mask	Filed
178	Dr. Hema H C	CIVIL	Basaltic Fiber Pot Plates – EcofriendlyAppurtenances	Filed
179	Dr.Smaranika Panda	CIVIL	A LOW COST FOAM MAKER FOR EVERYDAY USE	Filed
180	Dr. Asha M Nair	CIVIL	Weather shielded helmet visor	Filed
181	Mr.Shivakumara M J	CIVIL	Fix it Bed Spread	Filed
182	Dr. Lakshmi Srikanth	CIVIL	Multipurpose mobile cover	Filed
183	Mr.Ruchir AJ	CIVIL	Crack monitoring instrument	Filed
184	Preeti Jacob	CIVIL	SOFT SCRUBBER FOR PINNA AND BACK OF HUMAN EAR	Filed
185	Ravi Kant Talluri	CIVIL	Dryer Attachment to Domestic Refrigerator	Filed
186	Jithendra Reddy	CIVIL	FGC under ambient curing	Filed
187	Jithendra Reddy	CIVIL	Self-Compacting Geopolymer Concrete under ambient curing	Filed
188	Prof. Mahesh Kumar Jha, Prof. Monika Singh and Prof. Raveesh Hegde	TCE	Continuous Track Propulsion System Based Movable Chair For Easy Maneuver On Uneven Surfaces	Filed
189	Prof. Raveesh Hegde, Prof. Mahesh Kumar Jha and Prof. Monika Singh	TCE	Adult Walker With Independently Adjustable Front And Back Legs	Filed

WORKSHOPS/FDP

- Department of ISE organized AICTE Sponsored Two Days E-Conference on “**Machine Learning as a Service**” with key note address by **Dr.Ramadosh**, NIT , **Mrs.Anitha Senthilkumar**, CADOpt Technologies, **Mr.Sriramkumar Sarangapani**, Pixagons, Australia, **Mr.S.Mahaboob Basha**, Infosys Limited – Germany from 4th to 5th Sep 2020.



- Department of ISE organized AICTE Sponsored Six Days Online Short Term Training Programme on “**Internet of Things, Big Data Cloud - IBDC 2020**” by **Dr.T.Ramkumar**, VIT, **Dr.Srinivasan**, Cresnet University, **Mr.Suresh Perinchery**, PTC, **Dr.G.Pradeep**, AVCCE, **Ms.Annie Joyce**, CDAC, **Dr.M.Latha**, AVCCE, **Mr.S.Balachandar**, Shell India Pvt Limited, **Mr.Ramkumar Viswanathan**, **Dr.Balaji Rajendran**, CDAC, **Mrs.Anitha Senthilkumar**, CADOpt Technologies, **Dr.Sahina Parveen**, **Dr.Geetha**, **Mrs.Gomathy**, **Dr.R.Chinnaiyan**, CMRIT from 21st to 26th Sep 2020.



- Department of MCA organized National level training program on “**Artificial Intelligence Banned UX and UI for Product Design** ” by **Mr. Sourav Mondal**, UX & Visual Designer, High Peak Software, Bengaluru from 5th Oct to 09th Oct 2020.

- Department of ISE organized AICTE Sponsored Six Days Online Short Term Training Programme on “**AI enabled Augmented Analytics for Business Intelligence**” by **Philip V.Varughese**, Vice President & Global Lead Accenture Security, **Mrs. Barkha Narang**, Associate Professor, JIMS Kalkaji, **Dr.R.Chinnaiyan**, Asso.Professor, ISE –CMRIT, **Dr.S.Lovelyn Rose**, Associate Professor- CSE,PSG College of Technology, **Dr.Sahina**

Parveen, Associate Professor–ISE CMRIT,

Mrs.Gomathy,

Asso.Professor & Head MCA–CMRIT,

Dr.S.Selvamuthukumaran, Professor & Director -MCA Vice Principal AVCCE,

Dr.N.Kumarappan, Professor–EEE , Annamalai

University, **Mrs.Krishnakumari**, Associate

Professor- CSE AVCCE, **Dr.P.Ambika**, Expert Data Scientist Impact Big Data Analytics,

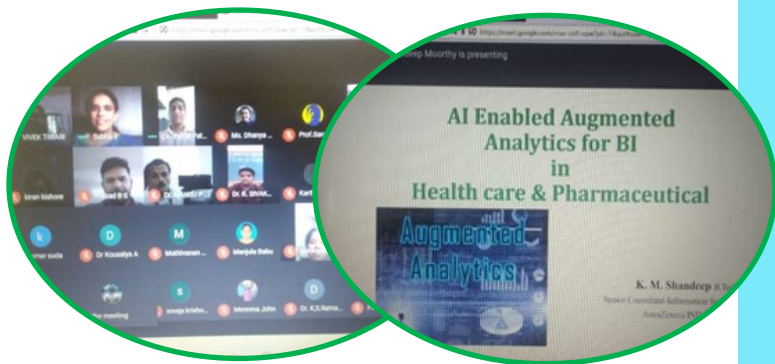
Dr.Narayana Swami Ramaiah, Professor & HEAD –CSE Jain University,

Mr.S.Balachandar, Shell, **Dr. Darshana**

Jignesh Desai, Associate Professor and HOD Indira College of Engineering & Management from 12th to 17th Oct 2020.



- Department of **ISE** organized AICTE Sponsored Six Days Online Short Term Training Programme on “**AI enabled Augmented Analytics for Business Intelligence**” by **Mr.Bastin Robins**, Chief Data Scientist CleverInsight, **Dr.Paavai Anand G**, SRM University, **Mr.Visveswaran Vaiyapuri**, Senior Consultant, CleverInsight, **Prof..R.Chinnaiyan**, Asso.Professor, **Prof.Kavitha**, Associate Professor, **Prof.Prasad B.S**, Assistant Professor, **Prof.Saveetha Hiremath**, Assistant Professor, **Prof.Vidhya U**, Assistant Professor, **Prof. Sahina Parveen**, Associate Professor, CMRIT, **M. D. Sambath** Lead Tech Consultant, Data Scientist – Cust, **Mr.D.Surendar**, Ops Head, Maxbyte Technologies , **Mr.Pravin Hanchinal**, Founder , Team Lead, INWHIZZ IT Innovations, **Dr.Anitha**, Professor & HEAD –CSE, SVCE, **Mr.Sandeep**, Lead Consultant – Cyber Security Info Sec, AstraZeneca India Pvt., Ltd, **Mrs..S.Subha**, Assistant Professor – CSE RIT from 2nd to 7th Nov 2020.



- Department of **MBA** had organised a LTTP on “**Business Analytics**” by **Dr. Prakash B Yaragol**, **Prof. Sabeha**, **Prof. Preksha**, **Prof. Manjunatha** and **Prof. Kathari Santosh**, CMRIT from 9th to 13th Nov 2020.
- Department of **CSE** had organised a training program on “**Data Science using Python**” by **Prof. Jhani Rani**, **Prof. Kavitha P**, **Prof. Rijo**

Tom Jackson and **Prof. Preeti Sheba Hepsiba** from 18th to 28th Nov 2020.

- Department of **EEE** had organised a training program on “**Design and Simulation of Power Converters and Applications using MATLAB/SIMULINK**” by **Prof. K Chitra**, Professor, **Prof.Viji K**, Assistant Professor, **Prof. Hemachandra**, Assistant Professor, CMRIT from 23rd to 27th Nov 2020.
- Department of **EEE** had organised a AICTE sponsored 6 days STTP on “**Power Utilities and Artificial Intelligence - Leveraging the Data**” by **Dr.V.Chitra**, Professor, Department of Electrical Engineering and Renewable Energy, Oregon Institute of Technology, USA, **Prof.P.Velraj Kumar**, Associate Professor, EEE Dept, CMRIT, **Prof.K.Chitra**, EEE HoD, CMRIT, **Dr.Arijit**, Assistant Professor, CMRIT, **Dr. Hemachandra**, Assistant Professor, CMRIT, **Prof.Lokasree**, Assistant Professor, CMRIT, **Dr.Chandrasekar**, IIT Bhubaneshwar, Assistant Prof and PIC–Electrical works, School of Electrical Sciences, **Dr.Deepak Reddy Pullaguram**, Assistant Professor, EE Department, NIT Warangal, **Dr.Sanjeev Nayak**, Specialist, Automotive Division, L&T Technology Services, Bangalore, **Dr.Jothi Swaroopan**, Professor, RMKEC, **Mr.Selvakumar**, Head, Engineering and Design, Power Projects, **Mr.V J Dijo**, Senior Consultant, Power Projects, **Dr.Kuppusamy**, DGM Saipem, **Dr.Mohanasundaram**, Professor, KPRIET, **Dr.Bharathiraja**, Assoc.Prof, EEE. SRMIST, **Dr.Prabha Umapathy**, Professor and Head, EEE Department, Sri Ramakrishna Engineering College from 23rd to 28th Nov 2020

DEPARTMENT TECHNICAL ACTIVITIES

SEPTEMBER

- Department of **MBA** organized an Expert Talk on "**Marketing Cases - Writing and Solving**" by **Mr. Venkat Ramani** on 4th Sep 2020
- Department of **MCA** organized online guest lecture on "Testing Techniques-Approach to more secure Applications" by **Mr. Ram Kumar**, Test Architect, Legato Health Care, Bangalore on 5th Sep 2020.
- Department of **ECE** organized online guest lecture on "What How & When to Prepare for an Opportunity" by **Angshuman Ghosh**, Vertical Head, PS IT Product – Staffing on 5th Sep 2020.
- Department of **EEE** organized online expert lecture on "Electrical impedance Tomography (EIT) – A potential Medical Imaging Technique" by **Dr. Venkatratnam Chitturi**, Faculty in School of Engineering, Asia Pacific University of Technology and Innovation, Kuala Lumpur, Malaysia on 5th Sep 2020.
- Department of **CSE** organized online expert lecture on "Micro Services related to Full Stack Development" by **Lavanya Venkatramani**, Sr. Software Engineer, Accolite Software Pvt.Ltd on 5th Sep 2020.
- Department of **MCA** organized online guest lecture on "Career Opportunities & Guidance"

by **Ms. Astha Singh**, Software Engineer, Koch Pvt Ltd, Bangalore on 28th Sep 2020.

- Department of **EEE** organized online Guest lecture on "Electrical Infrastructure Design/ Lighting Design" by **Mr. Asif** -MEP Engineer, Founder, Princeton Smart Engineers on 28th Sep 2020.

OCTOBER

- Department of **CSE** organized online guest lecture on "Institution to Industry" by **Arun Venkatachaliah**, Senior Tech. Consultant, Wipro on 3rd Oct 2020.
- Department of **Civil Engineering** organized online expert talk on "Stability Monitoring of Civil Structures: Importance, Methods and Remedial measures" by **Mrs. Praveena Das Jennifer**, Scientist, National Institute of Rock Mechanics, Bengaluru on 13th Oct 2020.



- Department of **MBA** organized an Expert Talk on "Start-up India: Idea to Execution" by **Mr. Chirag Kashyap**, Co-Founder and CEO, Open My Book on 13th Oct 2020

- Department of **MCA** organized online guest lecture on **“Detection of Skin Cancer using Artificial Intelligence”** by **Mr. Supratim Das Gupta**, Data Scientist & CEO, Eradicate Diabetes & US on 17th Oct 2020.
- Department of **CSE** organized online guest lecture on **“System Landscape overview in SAP”** by **Vignesh Anandhan**, Associate Software Engineer, TCS on 17th Oct 2020.
- Department of **MBA** organized an Expert Talk on **“Team Building”** by **Dr. Tulika Saxena**, MJP ROHILKHAND UNIVERSITY, BAREILLY on 17th Oct 2020
- Department of **ECE** organized online guest lecture on **“Wearable Technology (E-Textiles)”** by **Avinash Prakah**, Application Engineer, Accenture on 19th Oct 2020.
- Department of **ECE** organized online guest lecture on **“Application of Mini/Major Projects in Electronics”** by **Aswath Kumar**, Electronics Engineer, Sportcor on 22nd Oct 2020.
- Department of **Civil Engineering** organized online expert talk on **“Sustainable practices in the field of Engineering”** by **Dr.M.Chandrasekharan**, Professor & HOD, National Institute of Technology, Warangal on 23rd Oct 2020.
- Department of **ECE** organized online guest lecture on **“Financial Basics (Banking for Non-**

Bankers)” by **Sridhar Kubasad**, Business Manager, ANZ on 24th Oct 2020.

- Department of **CSE** organized online guest lecture on **“Backup and Restores”** by **Nagendramani Pandey**, IT Consultant, TCS on 24th Oct 2020.
- Department of **MCA** organized online guest lecture on **“Tools and Techniques for Dev”** by **Mr. Nandha Kumar**, CEO, Vallift Innovations, Bangalore on 27th Oct 2020.



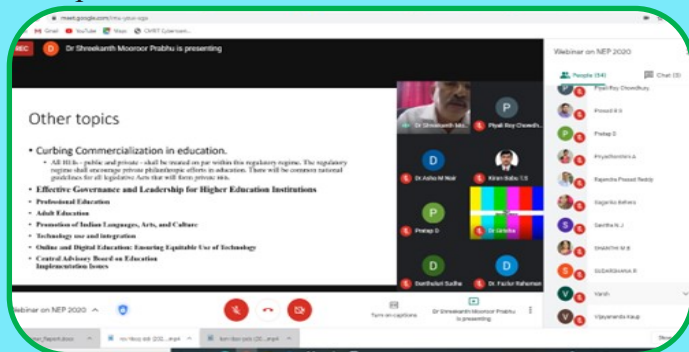
NOVEMBER

- Department of **CSE** organized Expert talk on **“Online Safety-Responsible online behaviour”** by **Janice Verghese**, Cyber Lawyer & Cyber Security Specialist, Communications, and Training, Cyber Peace Foundation on 12th Nov 2020.
- Department of **MBA** organized Guest lecture on **“Enhancing Employment Opportunities using LinkedIn”** by **Rajesh C N B**, Enleanytics, Bengaluru on 18th Nov 2020.
- Department of **MBA** organized Expert lecture on **“Financial Capital Markets”** by **Mr. Kishore**, CTO and C-Founder, Stock Market Institute (SMI) on 21st Nov 2020
- Department of **ECE** organized guest lecture on **“#IAmRemarkable”** by **Ms.Ramya Bhagirathi** Software System Designer, Robert Bosch on 28th Nov 2020.

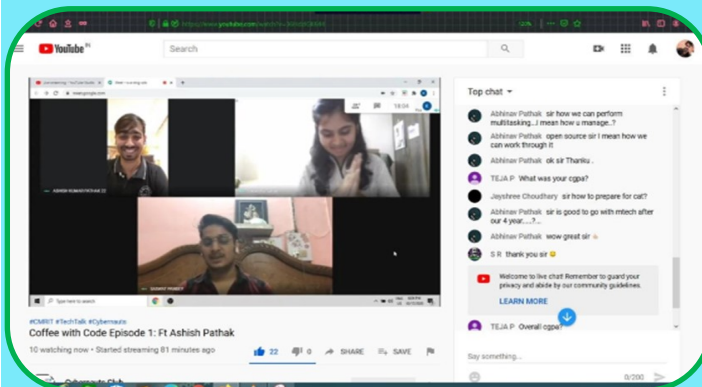
INSTITUTE LEVEL CELLS

IQAC (INTERNAL QUALITY ASSURANCE CELL)

- Organized online Webinar on “**National Education Policy 2020**” by **Dr. Shreekanth M Prabhu**, HoD ISE, CMRIT on 28th Sept 2020.



- Organized online guest lecture “**Coffee with Code**” by **Ashish Kumar Pathak**, Product Manager, ICICI on 17th Oct 2020.



FOSS CELL

- Organized online Webinar on “**How to prepare for GSoc**” by **Mr. Rifas S** on 24th Sept 2020.
- Organized university level online “**VTU FOSS Project Competition**” on 30th Sept 2020.
- Organized College level online workshop on “**FLUTTER-UI Framework**” by **Mr. Kahnaya Kumar Yadav** on 2nd Oct 2020.
- Organized GSoC event on “**Leveraging the Open Source Resources**” by **Dr. Mohith Tahiliani**,

NITK, Surathkal, **Mr. H. L. Praveen Raj**, NITK, Surathkal, **Mr. Adarsh Naidu**, NITK, Surathkal on 17th Oct.2020.

WELL BEING CLUB

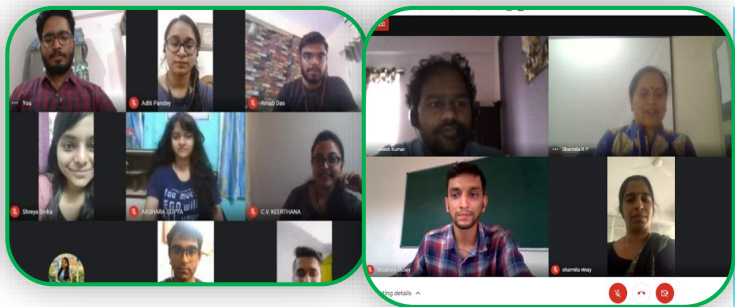
- Organized an art competition “**Art of Positive Thinking**” from 3rd to 15th Sep 2020 .



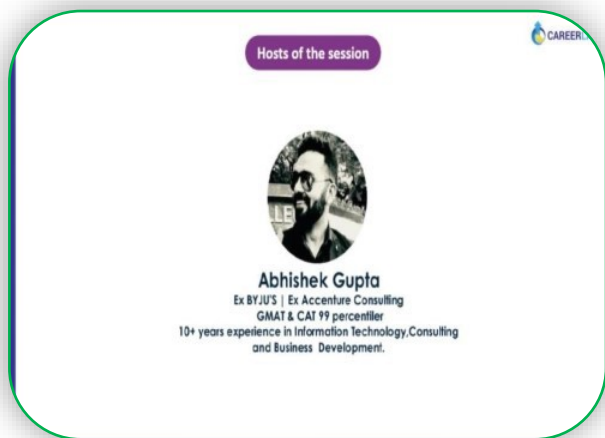
- Organized Doctor talk on “**Eye care tips for teachers and students attending online classes**” by **Dr. Mayanka Nayak** from Dr.Agarwal Eye Hospital, Whitelfield on 11th Nov 2020

EE & C

- Innovation club** organized National Level Inter Institute Debate League “**Notion Negotiation**” on 5th & 6th Sep 2020.
- Organized online webinar on “**Opportunities through GATE**” by **Mr. Dhinesh Kumar**, Organiser IGC GATE, **Prof. Shashank Dube**, **Prof. Preethi A** on 29th Sep 2020.



- Organized online guest lecturer on **“Open Mic”** on 12th Oct 2020.
- Organized an online webinar on **“How to Get into Top Universities for Masters with Scholarship”** by **Abhishek Gupta** BYJU’S – National Eminent Speaker, Founding member – Career Labs on 12th Nov 2020.



PROFESSIONAL BODY CONNECT

- IEEE CMRIT Student branch organized interactive webinar on **“Getting started with Robotics”** by **Mr.Nippun Kumar**, Senior IEEE member on 9th Sep 2020.
- **IE[I] student chapter** organized Guest lecture on **“Automation basics & PLD”** by **Rahul Kishore Raj**, CEO, TechArchers on 25th Sep 2020.
- **Indian Science Congress Association** organized Webinar on **“Pointers- The Queen of C”** by **Prof.P.N.Singh**, Professor, CMRIT on 17th Oct 2020.

- IEEE CMRIT Student branch organized two day hands on workshop on **“VLSI Design On Open Source EDA Tool-Circuit to Netlist”** by **Ms. Anusha R**, Project Manager, Star VLSI Service Pvt. Ltd. **Ms. Vasanthi D R**, Asst. Professor, SOET, CMRU, Bangalore from 24th to 25th Nov 2020.
- IEEE CMRIT Student branch organized two day hands on workshop on **“Image Processing Algorithms For Project implementation-MATLAB”** by **Prof. Shruthi M L J** -Asst. Professor Dept. of ECE - PES University **Prof. Vijayalakshmi** - MIETE,ISRO **Prof. Ashwini N-IEI** and **Dr.Chetan H.** -Senior Member, IEEE. from 26th to 27th Nov 2020.

SC/ST STUDENT ENTREPRENEURSHIP CELL

- Organized training on **“Automation of stock market project”** by **Dr. Phani Kumar P**, CMRIT and **Mr.Suresh N**, Devahuthi on 30th Sep 2020.



SPIC MACAY CHAPTER-CMRIT

In order to encourage organizations like SPIC MACAY (*Society for the Promotion of Indian Classical Music and Culture Amongst Youth*) who are really striving towards preserving our Nations rich and diverse cultural heritage, CMR Institute of Technology registered for SPIC MACAY on the 26th of September 2020.

The online orientation program was organized on the 12th of October 2020 at 6:30 PM. The program was hosted by **Ms. Kruttika Apshankar**, **Ms. Kunda Mahurkar** (National Chairperson SPIC

MACAY), **Ms. Babita Mishra**, **Dr. Karan Nanda** Volunteer of SPIC MACAY of the Noida region, and **Mr. Aditya Rangan**. Recorded address of the founder of SPIC MACAY **Prof. Kiren Seth** was played where he informed as to how he got the idea of starting this organization and how it is contributing to the society.

SPIC MACAY Karnataka in association with Indian Institute of Science (IISc) organized Live & Online Carnatic Veena concert by **Vidushi Jayanthi Kumaresh** on 31st Oct 2020.

SPIC MACAY organized weekend programs from the 27th to 29th of November 2020 –

- 27th Nov 2020 - 6 pm - Cinema Classics: Screening of **Akira**

Kurosawa's Kagemusha

- 28th Nov 2020 - 3 pm - Great Master's Series we play a recording of **M S Subbulakshmi (Bharat Ratna)**
- 28th Nov 2020 - 6 pm - Live concert of **Mohi Baha'ud-din Dagar**
- 29th Nov 2020 - 11 am - Volunteer Meet; 12 pm - Live programme of folk artist **Kalu Ram Bomania**



CLUB ACTIVITIES– TECHNICAL

Protocol club of MCA department

Crossword, The code insider 1.2, Dot your Design, Buiding a chatbot using python, CODE ZIPPER

Codechef, RISE, Coding Ninjas clubs of ISE department -

Spot the Bug, The Pattern Enigma, Insight into DSC, Web it Out, Codigo, 30 days Google cloud program, The structures Clutch, Java on the run, CPL Best Vs Best, Codezilla, Roadmap of competitive programming

Cybernauts, Mozeity, ACE, MindSpark clubs of CSE department

Pydef, Code for ML Initiator-"Python Challenge", Code Fiesta 2.0, Picsta, FLUTTER DEVELOPMENT : CHAPTER 1, Codigo, Crossword, QuizonDS, October Rumble, Getting Started with OpenSource, Crackthecode 2.0

ECO & SOCE club of Civil department - Guess the picture, Journalise, CartoBen grapher, Design the given site

ENSAV and FEEE Club of EEE Department

Webinar on Renewable Energy sources, Article writing on hybrid electric vehicles, Tech Video Presentation, Electrical Riddle, SDG Conclave, Tech talk on Smart Meters, Energy Audit Phase-II

Science club of BS department

Development of rural life and agriculture- Role of Science & Technology

Mavericks of Marketing, Finance and Investment, HR and Communication Club of MBA department -

Portfolio return, Brand Name, Logo Designing and Creating, Personality Assessment, Repositioning of Product, Prediction in Stock Market, Payroll, Games in stock Market: Simulation, Performance Appraisal

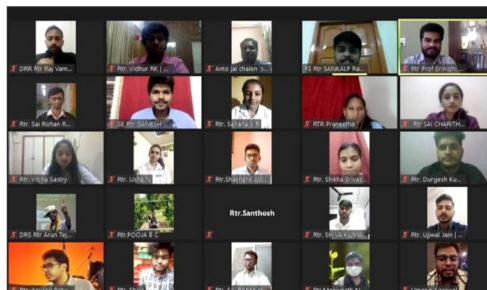
Technolic club of TCE department

Quiz On Telecommunication Systems, Quiz On Cellular Mobile Communication

Society of Mechanical Engineers(SME) club of Mechanical department -

Design for Future, Career Path planning, Material Science Quiz

ETA, Connaissance club Rotaract Club of ECE Department



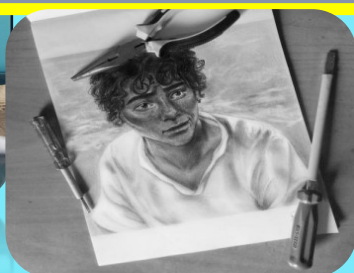
Techno Crossword, Guesstimate, Guess the picture Technodium) , Picathon, ELECTRO QUIZ, Sign Language, Elektronik, Electro-Thon, Webinar On Multisim, Neuro Combat, Riddle Fanatic, Analogy, Cloneoelectric, Rencontre Incontro. Electro-Mania, Quizzard, Techno Quiz, Pictionary, PRADYOTH - RAY OF LIGHT

CLUB ACTIVITIES - NON TECHNICAL



ART Club

Mandala And Zentangle,
Vegetable / Fruit Carving, Free
Style Sketching



MUSES Club

Guess the Logo, Logo Design Even, T-
Shirt Design, Logo Redesign, IPR
Awareness Poster Design Competition.



Photography Club

Knolling, CLICK – CLICK,
Freeze N Frame, Reel It In



Music Club

Solo Singing
Contest,
Instrumental
Solo, A Capella



Theatre Club

Musical Drama, Improv 2.0,
The Stage Life (Workshop)

Literary Club

Online Prose Contest, Online
Literature Quiz, Seven Word
Tales, Mad-LIBS

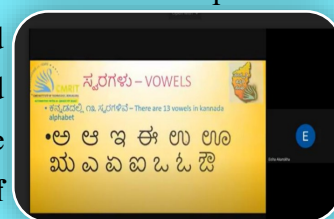
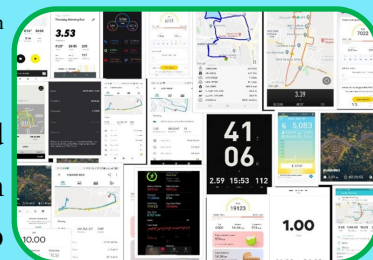
Dance club

Dance Reels,
Bollywood
Dance

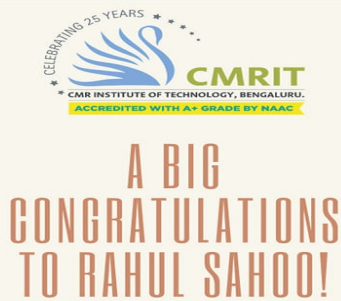


COMMUNITY-CONNECT

- **Imparting Information Club** for Women had organized online teaching on “**Presentation, Microsoft word, Creating a mail**” for college going girl by Deeksha TS (1CR18CS052), Bindupriya R (1CR18CS040), Deepti Ts (1CR18CS055) on 4th Sep 2020.
- **Imparting Information Club** for Women had organized online training on “**Social media for college dropout girls and house wife**” by Praveen.S (1CR18EC154), Priyanka B.L (1CY19MCA62), Bhoomika.R(1CR19MCA64) on 6th Sep 2020.
- **Imparting Information Club** for Women had organized online training on “**Teaching how to create a mail and a google form**” by Disha Bhat (1CR18IS047), Deepanjali Pradhan (1CR18IS044), Deepika M Shetty-(1CR18IS045) on 6th Sep 2020.
- **Imparting Information Club** for Women had organized online teaching on “**How to use online payment apps-Gpay, PhonePe, Paytm**” for house wives in Bangalore by Chandana N (1CR18CS042), Chitra BL (1CR18CS045), DeekshaRani BN(1CR18CS050) on 6th Sep 2020.
- **Imparting Information Club** for Women had organized online teaching on “**Basic introduction to Whatsapp**” to the school going girls by Achyutha Krishna(1CR18CS005), Ananya Narayan Koderi (1CR18CS021) on 6th Sep 2020.
- **Imparting Information Club** for Women had organized online teaching on “**Digital banking for the women**” from Heretogaleri of Davanagere and Hegde from Kumta by Supraja Bhat (1CR18IS157) and Vidya SG(1CR18IS169) on 9th Sep 2020.
- **NSS-CMRIT** had organized “**FIT India Freedom Run**” under the aegis of FIT India Movement from 27th to 30th Sep 2020.
- **SWE-CMRIT** had organized webinar on “**Challenges to Bring India to the Current Level of Excellence in Aeronautical Industry**” by Padmashri Dr.C.G. Krishnadas Nair, ex-chairman HAL and President, Society of Indian Aerospace Technologies & Industries (SIATI), Prof. Dwarakadasa, Chairman, KHMDL and Mr. Paul Robichaud, SWE India Head on 25th Sep 2020.
- **EBSB - CMRIT** had organized Webinar and Quiz on the “**Learning Basics of Kannada letters**” on 25th Sep 2020.
- **SWE-CMRIT** had organized a special webinar on “**Text Analytics for Healthcare**” by Dr.Deepa Anand, Lead Scientist, GE Healthcare on 10th Oct 2020.
- **EBSB - CMRIT** had organized Quiz on the Quiz on the “**Classical Dances in India**” on 10th Oct 2020.
- **Imparting information club-CMRIT** organized online session on “**Basic Computer Training, Soft Skills**” from 21st to 28th Oct 2020.
- Department of **BS-Mathematics** organized **POSH activity - Prevention, Prohibition and Redressal Mechanism** by Prof. Preeja Sreedhar, Faculty/ Corporate Trainer/ Communication Coach, specialist in Organizational Psychology, Human Resource Management and Soft Skills on 24th Nov 2020.



TYL-TRAINING AND PLACEMENT



We are excited to inform you that **Rahul Raj Dev Sahoo** got an offer of IT Engineer from SpaceGrab with an annual salary of **INR 21.3 LPA**. The company will also cover the cost of Japanese Language & Culture training. This is the first international placement from a Japanese Corporation through CMRIT Campus hiring.



TIE YOUR LACES (TYL) Hackathon **(Digital startups post-pandemic)**

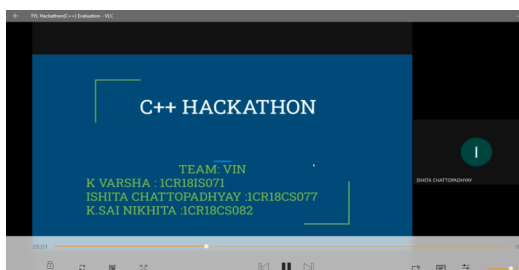
TYL Online Hackathon - C++

The CMR Institute of Technology, Bengaluru organized TYL Online Hackathon on 13th Nov 2020 from 4 pm to 14th Nov 2020 till 4 pm (24 hrs) in C++ which is open to all students. Total 10 teams have registered and 08 teams has participated for the hackathon.

Winners -

Team Obelix

- **Sristi 1CR17EE070,**
- **Vipul Kumar Sinha 1CR17ME087**



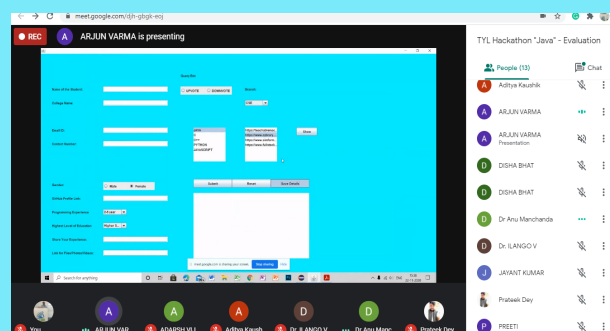
TYL Online Hackathon – Java

The CMR Institute of Technology, Bengaluru organized TYL Online Hackathon in JAVA from 21st Nov 2020, 4 pm to 22nd Nov 2020, 4 pm (24 hrs) which is open to all students. Total 10 teams have registered and 07 teams has participated for the hackathon.

Winners -

Team PSquare

- **Prateek Dey 1CR18CS124 ,**
- **Preeti 1CR18CS126)**



TYL Online Hackathon – Python Winners –

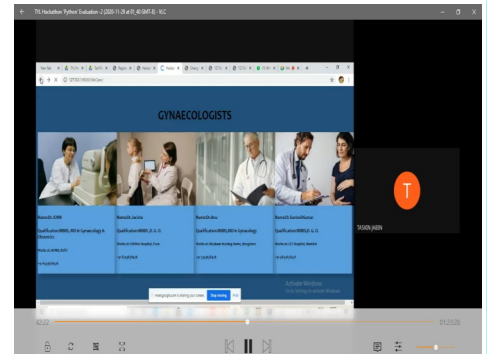
The CMR Institute of Technology, Bengaluru organized TYL Online Hackathon in Python from 28th Nov 2020 from 4 pm to 29th Nov 2020 till 4 pm (24 hrs) which is open to all students. Total 31 teams have registered and 19 teams has participated for the hackathon.

1st Place - Team Fsociety

- Gaurav G S -1CR18IS050,
- Chirag B Miskin - 1CR18IS042

2nd Place - Team Rirari

- Rithika F Johnson - 1CR18CS138,
- Rashmi M - 1CR18CS134,
- Rishita Raha - 1CR18CS137



- Organized a webinar on “**Opportunities in BFSI domain for MBA students. Skills required for Jobs in Private Banking**” by BygC on 15th Oct 2020.
- Organized a webinar on “**Capital Markets and Indian Exchanges**” by Stock Market Institute on 21st Nov 2020.

COMPANIES VISITED CMRIT IN THE LAST QUARTER



AND MANY MORE.....

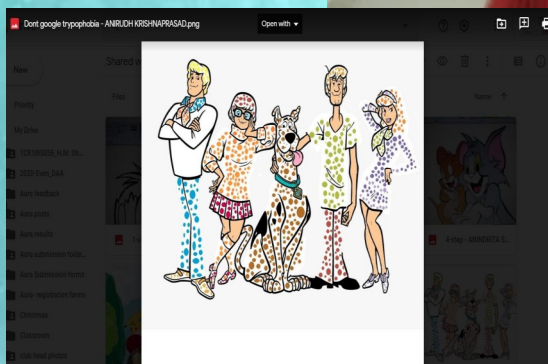
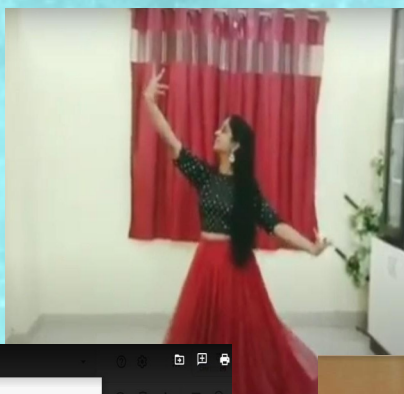
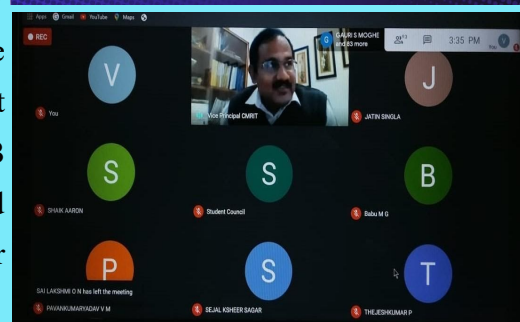
AURA-2020

Aura, our much-awaited interdepartmental cultural fest, was an opportunity for students to showcase their talents in various artistic fields. It provided students with a momentary escape from the monotony of college academics and this was the second consecutive year that Aura was hosted. However, due to special circumstances, this year the event was modified into an online format in order to ensure safe and active participation.

The fest was conducted over the course of three days from the 25th to the 27th of November and we had participation from all the various departments of our institute. The individual events were conducted by the art, music, dance, literary, theater, photography and digital media clubs of CMRIT.

The announcement of our various events this year was met with an overwhelming response and we garnered over 200 registrations! We saw exceptional talent portrayed over the course of the event and a select few were picked as winners.

AURA'20 Felicitation ceremony was organized online on the 30 Nov 2020. The felicitation ceremony started with the Cultural Secretary Ms. Sharanya presenting the report of AURA'20 where she announced the winners of all events and the winning department. It was followed by the address of our beloved Vice Principal Dr. B Narasimha Murthy sir who congratulated the winners and appreciated the efforts of Prof. Kashif Ahmed and the Student Council for successfully conducting the inter department cultural fest online.



WINNERS OF AURA'2020

Aarohan (Music Club):		Art'ed (Art Club)	
Western Solo Singing	1. Navya Bhattacharya (ECE) 1CR19EC122 2. Vaibhav B. (ECE) 1CR19EC210 3. Aditi Sudhakar (CSE) 1CR18CS007	Book Cover	1. Vaibhav Kubal (ECE) 1CR18EC222 2. Vipul Raj (ECE) 1CR18EC233 3. Velugula Charan Pallav (ECE) 1CR19EC215
Indian Solo Singing	1. Vaibhav B. (ECE) 1CR19EC210 2. Rohit Nandakumar (ECE) 1CR18EC168 3. Lahari Acharya (ECE)	Best Out of Waste	1. Supriya P. (CSE) 1CR19CS172 2. Arjun S. (EEE) 1CR17EE009 3. Bh G. Hanu Mohan (ECE) 1CR17EC045, 4. Disha Hati (CSE) 1CR19CS050
Take a Bow Productions (Theater Club) :		Muses (Digital Media Club)	
Emotion Quadrant	1. Sakshi Raina (CSE) 1CR19CS145 2. Disha Hati (CSE) 1CR19CS050 3. Pratyush Shrivastava (EEE) 1CR19EE064	Cinematic Sound Design	1. Arjun S. (EEE) 1CR17EE009 2. Rohit Nandakumar (ECE) 1CR18EC168 3. Krubasagare K. (ECE)
Monologue	1. Akanksha (ISE) 1CR19EE005 2. Shuchi Singh (ECE) 1CR19EC178 3. Vimal Khatri (ISE) 1CR18IS171	Design with MS Paint	1. Monisha V. (EEE) 1CR18EE056 2. Jatin C. (ECE) 1CR18EC075 3. Soumil Biswas (ECE) 1CR18EC200 Honourable mentions: 1. Dhatri Mudumbi (CSE) 1CR18CS057 2. Manish Madhavan (ME) 1CR18ME040
Minerva (Literary Club)		Pregos (Dance Club)	
Essay Writing	1. kria Ibrahim (CSE) 1CR19CS095 2. K. Varsha (ISE) 1CR18IS071 3. Sristi (EEE) 1CR17EE070 Honourable mentions: 1. Vibha Sastry (ECE) 1CR18EC227 2. Sai Skanda (Basic Science)	Indian Dance Solo	1. Gayathri V. Shenoy (CSE) 1CR19CS061 2. K. Sai Nikhita (CSE) 1CR18CS082 3. Vanishka Ghai (ME) 1CR17ME084
Debate	1. Athar Ahmed (EEE) 1CR19EE014 2. Vimal Khatri (ISE) 1CR18IS171 3. Ayush Dubey (ISE) 1CR18IS027 Honourable mentions: 1. Sristi (EEE) 1CR17EE070	Western Dance Solo	1. Vikram J. (EEE) 1CR17EE084 2. Monisha Maurya (CIV) 1CR18CV046 3. Hila Sashi (CSE) 1CR18CS073
Iris (Photography Club)			
Food Photography	1. Ruchitha N. (ECE) 1CR19EC152 2. K. Varsha (ISE) 1CR18IS071 3. Dhanush S. (EEE) 1CR18EE029		

STUDENT ACHIEVEMENT

Technology enables this 100% blind student to earn a degree in mechanical engineering

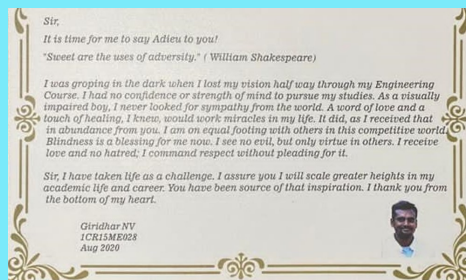
Education

Giridhar NV was pursuing a bachelor's degree in mechanical engineering when he lost his vision completely. Mechanical engineering is especially challenging for someone who is completely blind but thanks to technology Giridhar finished his programme with distinction.

It was 2017 and Giridhar NV had just finished celebrating his 20th birthday with friends at home. He was living his childhood dream of studying mechanical engineering and was entering his third year at the CMR Institute of Technology in Bengaluru.



Giridhar N V passed with distinction from CMRIT. In spite of being visually impaired, with right guidance and assistance from Enable India, and the college, he fought and succeeded. Best wishes to him from CMRIT Family



- **Harsh Gupta (1CR18IS058)** of ISE for ventured into a new startup business under MSME named "R7world".  
- **Apurva Kumar Gupta (1CR18CS028)** of CSE department as exhibited outstanding logical & analytical skills as the finalist of the programming challenge AMI-TECHFIESTA 2K20 organized by Amity University, Madhya Pradesh.
- **Ananya Narayan Koderi (1CR18CS021)** of CSE department secured 1st place in crossword.py Organized by ACE club at CMRIT.
- **Ankit Yadav (1CR18CS023)** of CSE department secured 3rd place in October Rumble Organized by GreeksforGreeks club at CMRIT.
- **Ananya Narayan Koderi (1CR18CS021)** of CSE department secured 3rd place in the event "Web it out" organized by Coding Ninjas CMRIT.
- **Dhanish Thacker (1CR18IS046)** of ISE department secured 2nd place in the event "Pattern Enigma" organized by CodeChef CMRIT.
- **Durgesh Kumar (1CR18IS049)** of ISE department secured 2nd place in event "Spot the Bug" organized by Coding Ninjas CMRIT.
- **Monisha V (1CR18EE056), A Rethika (1CR18EE056)** of EEE department won Green9 Ensaver Award by Institution of Green Engineers.
- **Sakshi Raina (1CR19CS145)** of CSE department

secured 3rd place in ML initiator python challenge Organized by MindSpark club at CMRIT.

- **Sakshi Raina (1CR19CS145)** of CSE department secured 1st place in Improv 2.0 Organized by Theater club at CMRIT.
- **Sourita Poddar (1CR18CS162)** of CSE department secured runner up in crossword.py Organized by ACE club at CMRIT.
- **Vaibhav Padmanabha (1CR17CS170)** of CSE department published book titled "Whisper of Heavenly souls" in Forever shining publishers.
- **Mr. Tanish, Mr. Nishal and Mr.Likith,** team "Pure Vision" has won consolation prize at FKCCI Manthan on 1st Oct 2020.
- **Mr. Pratik Mukesh Bharuka, Mr.Yashwanth Jain, Mr. Vaishnavi Patil, Mr.Arpan Abhishek and Ms.P. Meera Krishna** of CSE department won 2nd position in National level AccelATHON 2.0 - Inter College Online Hackathon organized by Bangalore Chamber of Industry and Commerce (BCIC).
- **Ms. Mansi Sharma, Ms. Pooja BC and Mr. Deepak S** of MBA department took active part in Boardroom Challenge conducted by Business Line on Campus (BLoC). The team has successfully crossed the preliminary round challenge and reached semi-finals to be webcasted on 04 Dec'20.



FACULTY ACHIEVEMENTS

Research Publications

SN	Faculty Involved	Dept	Name of the Journal / International conference	Title of the paper Presented/ Published
1	Prof. Aritri Debnath	ECE	PhD EDITS 2020	Simple Additive Weighted Algorithm for Vertical Handover in Heterogeneous Network
2	Prof.Abhishek Javali, Prof.Sharmila K P, Prof.Aritri Ghosh	ECE	ICIRCA 2020	An Outlook of Narrowband IoT for Industry 4.0
3	Prof.Aswnin,N, Prof.Uma.S V	ECE	IEEE International conference for Innovation in Technology (INOCON 2020)	Drone Image De-noising and Feature Extraction
4	Prof. Binish Fatimah , Prof.Preethi A	ECE	IEEE Xplore/ ICCCNT 2020	An automatic siren detection algorithm using Fourier Decomposition Method and MFCC
5	Prof. Chetan H	ECE	Solid State Journal	Performance Dependency of Face Emotion Recognition System on Dropout and Learning Rate
6	Prof. Eisha Akanksha	ECE	ICECA 2020 (IEEE Conference)	An improved IoT Framework Data Transmission and Security using Light Weight Authenticated Key Management Mechanism
7	Prof.Imtiyaz Ahmed B K	ECE	International Conference on Inventive Research in Computing Applications (ICIRCA 2020)	An Approach for Digital Farming using Mobile Robot
8	Prof.Imtiyaz Ahmed B K	ECE	International Conference on Inventive Research in Computing Applications (ICIRCA 2020)	Enhancement of the Iris-Texture by Removal of Specular Reflections for accurate Iris Segmentation
9	Prof.Jyoti M R	ECE	ICECA 2020 Conference	Implementation of CMOS Differential Switches for High Speed Gold Code Generator
10	Prof. Mahesh Gaur, Prof. Sunil Kumar KH, Prof. Chetan H	ECE	Discover 2020 (IEEE Conference)	Arduino based smart and intelligent helmet system for two-wheelers
11	Prof.Pappa M, Prof.Abhishek Javali, Prof.Anindita Sahoo	ECE	IEEE Xplore/ I-SMAC 2020	Lossless Compression Techniques for Low Bandwidth IoTs
12	Richa Tengshe	ECE	IEEE EDITS 2020	Preliminary investigation on Analog Joint Source Channel Coding and Feedback based Communication System

13	Prof.Sharmila K.P,Prof.Anindita Sahoo, Prof.Abhishek Javali	ECE	ICSSIT (IEEE Conference)	Military Applications of Satellite Based IoT
14	Prof. Suganya J	ECE	ICOSEC 2020 (IEEE Conference)	Microstrip Patch - Slot Antenna with High Gain for Frequency Diversity Applications
15	Prof.Sunil Kumar K H, Prof.Chetan	ECE	B-HTC 2020 (IEEE Conference)	A Novel Image Compression Approach Using DTCWT and RNN Encoder
16	Prof.Sharmila K.P	ECE	IJMPERD	Simulation of a gas turbine engine on ZYNQ embedded platform
17	Prof.Vijayalaxmi A	ECE	IEEE CCEM 2020	Optimizing Liver disease prediction with Random Forest by various Data balancing Techniques
18	Prof.B.K. Vinay,Prof.Sunil Kumar K.H.;Pushpamala S.	ECE	2020 IEEE International Conference on Electronics, Computing and Communication Technologies (CONECCT)	<u>Power Aware GALS Based Pipelined DES System</u>
19	Prof.K.Venkateswaran	ECE	International Journal of Ambient Energy	Evaluation of Electromagnetic intrusion in Brushless DC motor drive for electric vehicle applications with manifestation of mitigating the electromagnetic interference
20	Prof.V.Agalya	EEE	Solid State Technology	Design of IoT based Automated Groundwater Treatment Unit for Irrigation Purpose
21	Prof.V.Agalya	EEE	Solid State Technology	Identification of Stroke Diagnostic Classification using Machine Learning
22	Prof.Anju das	EEE	Solid State Technology	Emotion Detection Classifiers from EEG Signals using Support Vector Machines (SVM) and k-Nearest Neighbor (k-NN)
23	Prof.Arijit Datta	EEE	Proceedings of SPIE	Manifestation of an ultra-high sensitive fiber optic microbend sensor realized by shining a Bessel-Gauss beam
24	Prof.Arijit Datta	EEE	AIP Conference Proceedings	Multimode interference-based highly sensitive strain sensor by illuminating with a Bessel-Gauss beam
25	Prof.Hemachandra G	EEE	Sustainable Energy Technologies and Assessments (Elsevier)	Dynamic performance evaluation of automated QFT robust controller for grid-tied fuel cell under uncertainty conditions
26	Prof.Hemachandra G	EEE	International Conference smart Technologies in computing Electrical and Electronics	Performance analysis of automated QFT robust controller for long-term grid tied PV simulations
27	Prof.Iqbal and Kashif Ahmed	EEE	SPRINGER NATURE Singapore Advances in Electrical and Computer Technologies Lecture Notes in Electrical Engineering (LNEE) Series	Overview and Recent Scenario of Biomass Gasifier Plants in Tamilnadu—A Field Survey

28	Prof.Keka M	EEE	Virtual International Technical Conference on Control in Electric vehicles and Smart grid with Renewable Energy Synergies" (VIT-CES-RES 2020)	Challenges in p-type Oxide Based Thin Film Transistor
29	Prof.Kashif Ahmed	EEE	Journal of The Institution of Engineers (India): Series	AI Techniques and Mathematical Modeling to Detect Coronavirus
30	Prof.Parvathy Thampi M.S.	EEE	Solid State Technology	Low voltage high efficient synchronous buck converter for mobile chargers
31	Prof.Ranjitha R	EEE	Solid State Technology	The Emerging Optimization Techniques of Microgrid for Sustainable Energy
32	Prof.Sanitha Michail C	EEE	Solid State Technology	A Review On Wind Forecasting Methods
33	Prof.Sumit Mohanty	EEE	Solid State Technology	Variable Selection based Fault Isolation Strategy for Multivariate Statistical Process Monitoring
34	Prof.Viji K, Prof. K Chitra, Prof.Lakshmanan	EEE	2nd International Conference on Materials, Manufacturing and Machining for Industry 4.0 (ICMMM 2.0)	PV Fed Grid Power Control by Discrete CUK Converter and SPWM Inverter Control Techniques
35	Prof.Viji K	EEE	Solid State Technology	Analysis of Coupled Inductor based Converter for the Grid-Connected PV System
36	Prof.Arun Kumar Yadav, Prof. Hema H C Prof.Shivakumara M J	Civil	"IOP Conference Series: Earth and Environmental Science	Environmental Impact Assessment on Renewable Energy: A review
37	Prof.Divya Viswanath, Prof. Asha M N	Civil	ERCICA - 2020	Bio-Modification- An Emerging Ground Improvement Technique
38	Prof.Divya, Prof. Asha M N	Civil	"IOP Conference Series: Earth and Environmental Science "	Evaluation of Sustainable Methods for Embankment Stabilization
39	Prof.Divya Viswanath, Prof. Asha M N	Civil	International Conference Advances in Civil Engineering (ACE 2020)-VNIT, Nagpur	Determination of Resilient Modulus of Layered Bio-stabilized Soil
40	Prof.V Divya, Prof.M N Asha	civil	Recent Trends in Civil Engineering (under the series Lecture Notes in Civil Engineering) issued by Springer Singapore.	Performance Evaluation of Bio-Stabilized Soils in Pavements"
41	Prof.Jithendra C	Civil	"IOP Conference Series: Earth and Environmental Science	Sustainable Self-Compacting Geopolymer Concrete under Ambient curing - Durability Properties
42	Prof.Lakshmi Srikanth	Civil	International Conference Advances in Civil Engineering (ACE 2020)-VNIT, Nagpur	Spatial Statistical Analysis of Traffic Accidents Using GIS and Python for Optimum Resource Allocation

43	Prof.G. Sreelakshmi, Prof.Asha M.N, Prof.Divya Viswanath	Civil	Construction in Geotechnical Engineering Proceedings of IGC 2018,Lecture Notes in Civil Engineering, Springer	Image-Based Measurements to Estimate Bearing Capacity of Hollow Driven Piles Under Impact Loading
44	Prof.Sreelakshmi G, Prof.Asha.M. N	Civil	Recent Trends in Civil Engineering (under the series Lecture Notes in Civil Engineering) issued by Springer Singapore.	Assessment of Scaling Effects on Plugging of Driven Piles Using Image Analysis
45	Prof.Sreelakshmi G, Prof.Asha.M. N	Civil	IOP Conference Series: Earth and Environmental Science	Use of digital correlation techniques for investigating behaviour of geothermal driven piles
46	Prof.SreeLakshmi	Civil	International Conference Advances in Civil Engineering (ACE 2020)-VNIT, Nagpur	Investigation of behaviour of open-ended driven piles in different cohesion less soils using image-based measurements
47	Prof.Smaranika Panda	Civil	International Conference Advances in Civil Engineering (ACE 2020)-VNIT, Nagpur	Assessment of particulate exposure in different transport medium at two contrasting land uses of Bangalore
48	Prof.Vibha Dalawai	Civil	International Conference Advances in Civil Engineering (ACE 2020)-VNIT, Nagpur	Experimental Investigations on Stabilized Mud blocks enriched with steel slag for Sustainable Construction
49	Prof.Danthuluri Sudha	CSE	Journal of Critical Reviews	Redundancy aware Cost Optimization in Workflow in Cloud Computing Environment
50	Prof.Gopika D	CSE	IEEE Ph.D EDITS 2020	FML: Fuzzification with Machine Learning based Parent Node Selection in RPL/6LoWPAN
51	Prof.Hemanth Kumar H S	CSE	International Conference on Smart Systems and Inventive Technology (ICSSIT 2020)	A Novel Approach of SVM based Classification on Thyroid Disease Stage Detection
52	Prof.Kanthimathi S, Prof.Jhansi Rani P	CSE	IEEE PhD EDITS 2020	Classification of Misbehaving Nodes in MANETS using Machine Learning Techniques
53	Prof.Poonam Tijare	CSE	Global Conference on Artificial Intelligence and Applications: springer	Personalized Recommender Systems: An Empirical Analysis
54	Prof.Poonam Tijare ,Prof.Jhansi Rani P	CSE	IEEE Ph.D EDITS 2020	A Sentiment Driven Approach to Detect Offline Events on Social Media Platform "
55	Prof.Paras Nath Singh	CSE	ICACI-2020 (2nd International Conference on Adaptive Computational Intelligence) in Technical collaboration with Springer, in collaboration with University of SANNIO, Benevento, ITALY, Organized by GSSSIET, Mysuru	Searching String in Bidata - A better approach by Applied Machine Learning

56	Prof.Pratham Majumder	CSE	IEEE EDITS 2020	Run Length Distribution based Block Coding Scheme for Sustainable IoT Applications
57	Prof.Pratham Majumder	CSE	13th IEEE International Conference on Advanced Networks and Telecommunications Systems (ANTS)	Fully Homomorphic Encryption based Privacy-Preserving Data Acquisition and Computation for Contact Tracing
58	Prof.Rijo Jackson Tom	CSE	International Journal of Advanced Trends in Computer Science and Engineering	Computational Approach for Character Identification and Retrieval of Grantha Inscription
59	Prof.Rijo Jackson Tom	CSE	Computers in Biology and Medicine	An Explainable Machine Learning Model for Early Detection of Parkinson's Disease using LIME on DaTSCAN Imagery
60	Prof.Savitha NJ	CSE	Journal of Green Engineering	Cyber Bullying Prediction for Safe Environment in Social Media
61	Prof.Sagarika Behera	CSE	Journal of Critical Reviews	An Efficient Double Encryption of Privacy Preserve of Data Security in Cloud Platform on Translucence Prototype
62	Prof.Smitha N	CSE	IEEE Xplore	Performance Comparison of Machine Learning Classifiers for Fake News Detection
63	Prof.Sagarika Behera , Aarathi Nair , S. M. Divyavani , Sabita G , Sophia Maria Augustine	CSE	International Journal of Latest Transactions in Engineering And Science	Securing EHRs Using Blockchain Technology
64	Prof.Sagarika Behera, Prof.Jhansi Rani P	CSE	IEEE Ph.D EDITS 2020	Application of Homomorphic Encryption in Machine Learning
65	Prof.Savitha S	CSE	Journal of Critical Reviews	Optimized Load Balanced Mechanism to Maximize the Lifetime of WSN
66	Prof.Sreedevi N	CSE	Indian Journal of Ecology	Assessment of landslides using power AHP method for Sakleshpur ,Karnataka,India
67	Prof.Akhilaa	ISE	2020 IEEE International Conference for Innovation in Technology (INOCON)	Vision: Android Appication for Visually Impaired
68	Prof.R.Chinnaiyan	ISE	VCANDO 2020	Machine Learning Approaches for Early Diagnosis and Prediction of Fetal Abnormalities
69	Prof.R. Joshua Samuel Raj	ISE	Malaysian Journal of Computer Science	Web based database security in internet of things using fully homomorphic encryption and discrete bee colony optimization
70	Prof.Swathi.Y	ISE	Journal of Critical Reviews	Creation of synthetic dataset using machine learning techniques for haze classification

71	Prof.Shreekanth M Prabhu	ISE	IEEE xplore	Identity Management using Ontology based Tantra Framework
72	Prof.Savitha Hiremath	ISE	15th IEEE International Conference on Industrial and Information Systems (ICIIS) 2020	Unsupervised Sentiment Classification of Twitter Data using Emoticons
73	Prof.Arunkumar T	MECH	Elsevier- Materials today	Investigation on Titanium Oxide Nanoparticles as Additives for Operating Biodiesel Fuelled Engine
74	Prof.Arunkumar T	MECH	Elsevier- Materials today	Mechanical and Microstructural Properties of Graphene Reinforced Magnesium Composite
75	Prof.Arunkumar T	MECH	Elsevier- Materials today	Investigation of Microstructure and Mechanical Properties of Laser and TIG Welded Stainless Steel Alloy
76	Prof.Arunkumar T	MECH	Icadma 2020- NIT Uttrakhand	“Corrosion Behaviour of Aluminium 6061 / MWCNT Composite Prepared by Double Stir Casting Method”
77	Prof.Manikandan H, Prof.Vijayananda Kaup, Prof.Harish Babu	Mech	Icadma 2020	A methodology for derivation of isomorphism index for Epicyclic Gear Transmission Systems
78	Prof.Manikandan H, Prof.Vijayananda Kaup, Prof.Harish Babu	Mech	Icadma 2020	A computational Methodology for Synthesis of Assur Groups
79	Prof.Ramdas Balan	PHY	Materials Today Proceeding	Solvent assisted synthesis of AMoO ₄ (A=Ca,Sr,Ba) nanomaterials
80	Prof.K.Meenakshi	Maths	JSST	A Study on Some Mathematical Concepts using Decomposition of Graphs
81	Prof.Arnav Manchanda, Prof. Anu Manchanda, Prof.Swati Mathur, Prof. Helen Josephine	MCA	International Journal of Emerging Trends in Engineering Research	Comparative analysis of various classification techniques to predict and detect Breast Cancer Using R
82	Prof.Ashwini P. Patil, Prof.Manjunatha Hiremath	MCA	International Journal of Emerging Trends in Engineering Research	Image Processing Techniques for Acute Leukaemia detection
83	Prof.Ilango, Prof.Gomathi Thiagarajan	MCA	IEEE International Conference on Computer, Communication and Signal processing	Secure agritech farming using staging level blockchaining and transaction access control using micro QR-Code
84	Prof..A.Suvitha	PHY	Functional Food Centre inc. USA -Book chapter	A computational effort to deciphering putative COVID-19 3C-like protease binders in the selected recipes of Kurdish ethnomedicine: An approach to find an antiviral functional tea" related to COVID 19 "Functional Food and Viral Diseases"

85	Prof. Mahesh Kumar Jha	TCE	2020 IEEE 3rd 5G World Forum (5GWF),	Performance of Zero-Biased NOMA VLC System
86	Prof. Mahesh Kumar Jha	TCE	IEEE PhD EDITS	NOMA MIMO Visible Light Communication Systems with ZF-SIC and MMSE-SIC
87	Girisha A	BS_Maths	Journal of Physics: Conference series	Edge fault tolerant Hamiltonicity in Brick Product graphs
88	Girisha A	BS-Maths	Journal of Physics: Conference series	Hypo-Edge-Hamiltonian Laceability in Graphs

CONSULTANCY

- **Prof. Eisha Akanksha** of ECE department generated consultancy amount of Rs.18,750/- from 3-days online training program on “ML, Data Analytics & Python Programming” from 2nd to 4th Sep 2020.
- **Prof. R.Chinnaiyan** of ISE department generated consultancy amount of Rs.28,500/- from National Level E-Conference on MLSI 2020 .

PROJECT GRANT PROPOSALS

- **Prof. Srinivas Reddy Mungara, Prof.Chidhananda R S ,Prof. Kodandapani D,** and **Prof. PhaniKumar** had received amount of Rs.20,52,000 /- for the project title “Mobile STP for drinking water- convert apartment brackish water to drinking water” from DST Water technology initiative (WTI).

FACULTY AWARDS AND RECOGNITIONS

- **Prof. Anju Das** of EEE department had won Green9 Ensaver Award by Institution of Green Engineers.
- **Prof. Agalya V** of EEE department served as resource person at AICTE sponsored six days Online STTP on “Futuristic Innovations, Trends in Renewable Energy and Utilization

Technologies” organized at VSB Engineering College on 19th Oct 2020.

- **Prof. Agalya V** of EEE department served as chair person for “International Virtual Conference on Public Health, Innovation and Technology - 2020” organized by BioLEAGUES Worldwide &Universiti Kebangsaan Malasiya on 30th Nov 2020.
- **Prof.V.Agalya** of EEE department served as resource person for “Orientation Session on National Innovation and Startup Policy” organized by KSR Institute of Engineering and Technology on 6th Nov 2020.
- **Prof. Arunkumar Yadav** invited as guest of honour for an AICTE sponsored FDP on “Application of GIS and Remote Sensing in Civil Engineering” from 23rd to 28th November 2020.
- **Prof.V.Agalya** of EEE department served as resource person for “Future Innovation by Green Energy” organized VSB Engineering College on 27th Nov 2020.
- **Prof. Asha M Nair** of Civil Engineering Department served as resource person at “Geotechnical Aspects in Lake Restoration” organized by Water Institute -Bangalore

University in association with ATREE & Friends of Lakes-FOL on 17th Oct 2020.

- **Prof. Aswini N and Prof. Vijayalakshmi** of ECE department served as resource person for “Image Processing Algorithms for Project Implementation – MATLAB” organized by IEEE Student Chapter from 26th to 27th Nov 2020.
- **Prof. Chinnaiyan. R** of ISE department served as resource person at AICTE STTP-IDBC 2020 organized by CMRIT on 26th Sep 2020.
- **Prof. R.Chinnaiyan. R** of ISE department served as resource person at AICTE MLSI 2020 organized by CMRIT on 5th Sep 2020.
- **Prof. K.Chitra** of EEE department had won Best Young HoD of the Year 2020 award from the 2nd International Academic and Research Excellence Awards 2020 (IARE 2020).
- **Prof. K.Chitra** of EEE department served as Journal reviewer for Journal of Chinese Institute of Engineers.
- **Prof. K.Chitra, Prof. Viji K and Prof. Hemachandra** of EEE department served as resource person for LTTP on “Design and Simulation of Power Converters and Applications Using MATLAB / SIMULINK” organized by CMRIT from 23rd to 27th Nov 2020.
- **Prof. Geetha** of ISE department served as resource person at AICTE STTP -IDBC 2020 organized by CMRIT on 21st Sep 2020.
- **Prof. Geetha** of ISE department served as resource person at Block chain techniques for Industrial Applications organized by Bharath Institute of higher education and Research on 24th Sep 2020.

- **Prof.Geetha** of ISE department served as resource person for AICTE Sponsored Two Weeks Faculty Development Programme “Blockchain Technology & its Applications” organized by Sri Shakthi Institute of Engineering and Technology on 13th Nov 2020.
- **Prof.Geetha** of ISE department served as resource person for “Industrial applications on IoT based Blockchain” organized by CMRIT on 27th Nov 2020.
- **Prof. Gomathy** of MCA department served as resource person at AICTE STTP -IDBC 2020 organized by CMRIT on 25th Sep 2020.
- **Prof. Hemachandra G** of EEE department served as resource person at AICTE sponsored six days Online STTP on “Futuristic Innovations, Trends in Renewable Energy and Utilization Technologies” organized at VSB Engineering College on 19th Oct 2020.
- **Prof. Jhansi Rani P, Prof. Kavitha P, Prof.Preethi Sheba Hepsiba and Prof. Rijo Jackson Tom** of CSE department served as resource person for Crash course on “Data Science using python” organized by CMRIT from 18th to 28th Nov 2020.
- **Prof. P.Kavitha** of CSE department served as resource person at “Development of Machine Learning Applications using Python” organized by Arasu Engineering College,Kumbakonam on 10th Oct 2020.
- **Prof. Kavitha P** of CSE department served as resource person for AICTE Sponsored six Days Online STTP on “AI enabled Augmented Analytics for Business Intelligence” organized by CMRIT from 2nd to 7th Nov 2020.

- **Prof. Keka Mukhopadhyay** of **EEE** department had received Best Paper Award for paper title “Challenges in p-type Oxide Based Thin Film Transistor” at VIT-CES-RES organized by SELECT, VIT, Chennai.
- **Prof. Manjunatha of MBA** department served as Resource Person for ATAL Sponsored FDP at JNNCE, Shivamogg, on "Blue Ocien Strategy for manufacturing Sector" on 22nd Sep 2020
- **Prof. Manjunatha S** of **MBA** department served as resource person at How to crack job interview organized by K S School Of Engineering And Management on 29th Oct 2020.
- **Prof.Paras Nath Singh** department of **CSE** has been elevated to the grade of IEEE senior member.
- **Prof. Paras Nath Singh** of **CSE** department served as resource person at “Quantum Computing in Python - Qiskit" organized by Centurion University, Odisha & Andhra on 16th Sep 2020.
- **Prof. Paras Nath Singh** of **CSE** department served as resource person at “AI & ML in Python" organized by IFERP (world's largest Non-profitable professional associations) on 10th Oct 2020.
- **Prof. Paras Nath Singh** of **CSE** department served as Journal reviewer for IEEE conference - Easy Chair-Iraq & USA.
- **Prof. Prakash B. Yaragol** of **MBA** department was awarded with Copy right for his book titled “International financial Management" by Government of India
- **Prof. Prasad B S** of **ISE** department served as expert for Creation of “VTU Engineering Dictionary in Kannada”.
- **Prof. Prasad B S and Prof. M. Shahina Parveen** of **ISE** department served as resource person for AICTE Sponsored six Days Online STTP on “AI enabled Augmented Analytics for Business Intelligence” organized by CMRIT from 2nd to 7th Nov 2020.
- **Prof. Rijo Jackson Tom and Prof. Vivia Mary John** of **CSE** department served as resource person at “Startup Workshop" organized by CMRIT on 19th Sep 2020.
- **Prof. Rijo Jackson Tom** of **CSE** department served as resource person at AICTE sponsored STTP on “IOT based Green Energy” organized by B V Raju Institute of Technology (BVRIT), Hyderabad on 17th Sep 2020.
- **Prof. Rijo Jackson Tom** of **CSE** department served as Journal reviewer for IEEE Access.
- **Prof. Rijo Jackson Tom** of **CSE** department served as resource person for AICTE Sponsored Online Short Term Training Programme - Phase 4 on “Machine Learning with Python in Data Science - Applications and Research Perspectives” on 7th Nov 2020.
- **Prof. Shahina Parveen M** of **ISE** department served as resource person at AICTE STTP -IDBC 2020 organized by CMRIT on 21st Sep 2020.
- **Prof. Shahina Parveen M** of **ISE** department served as resource person at STTP: AI Based Augmented Analytics For BI organized by CMRIT on 21st Oct 2020.

- **Prof. Shahina Parveen M** of ISE department received “Best Innovative research and Dedicated Teaching Professional "award of the year 2020 from "The Society of Innovative Educationalist&Scientific Research Professional" (SIESRP) Chennai, India, Accredited by ISRP Malaysia.
- **Prof. Shahina Parveen M** of ISE department served as resource person at “Healthy Life Style”organized by Well Being club-CMRIT on 3rd Oct 2020.
- **Prof.Soundarya. N** recieved Young Researcher Award by Institute of Scholars (InSc) on 10th Nov 2020.
- **Prof. Sumit Mohanty** of EEE department served as resource person for Five Days Online Short Term Training Programme on “Introduction to Android Programming & Interfacing for Robotics Applications” organized CMRIT from 9th to 13th Nov 2020.
- **Prof. Velraj kumar** of EEE department had won Green9 Ensaver Award by Institution of Green Engineers.

Ph.D AWARDEES

Prof. Chennur Jithendra Reddy of Civil department has been awarded with Doctor of Philosophy (Ph.D) in Geopolymer Technology from Vellore Institute of Technology.



Prof. Preethi Sheba Hepsiba of CSE department has been awarded with Doctor of Philosophy (Ph.D) in Cloud Computing from Karunya Institute of Technology and Sciences.

Prof. Savitha Hiremath of ISE department has been awarded with Doctor of Philosophy (Ph.D) in Data Mining from Bangalore University.



Prof. Suganya S of ECE department has been awarded with Doctor of Philosophy (Ph.D) in Performance analysis of scheduling algorithms in OFDM systems from VTU.

UPCOMING ACTIVITIES

Activities planned for the next academic quarter Dec 2020 –Feb 2021

S NO	DATE	ACTIVITY	DEPARTMENT
1	10 th Dec 2020	AICTE NISP Policy	IIC 3.0
2	14 th to 16 th Dec 2020	Short Term training Programme (STTP) on Intellectual Property for Engineers & Scientists	IPR & MSME- IIC 3.0
3	16 th Dec 2020	Idea Pitch Contest '2020'(KAPILA Initiation)	I&E Cell- IIC 3.0
4	16 th Dec 2020	COE Technology webinar	COE: Modeling of dynamical systems
5	17 th Dec 2020	IEEE International Conference on Communication, Computing, and Industry 4.0 (C2I4)	
6	21 st to 29 th Dec 2020	STTP Computational Techniques in Calculus and Linear Algebra using MATLAB AND SCILAB	BS - Mathematics
7	21 st Dec 2020	STTP on Data Science and Machine Learning with Python	COE: Machine Learning and Bigdata
8	21 st to 23 rd Dec 2020	Review paper writing- focus on Q1 journals	Sc/ST Cell
9	21 st to 24 th Dec 2020	STTP on "Analog Circuit Design"	COE: Integrated Circuits
10	23 rd Dec 2020	Technology Based Webinar	COE: Intelligent Human computer interaction
11	Dec 2020	Technology Webinar	COE: Materials sciences & COE: Sensor and Nano electronics
12	Dec 2020	Technology Webinar	COE: Intelligent Energy systems
13	Dec 2020	Phase 2 and Phase 3 AICTE sponsored STTP on Power Utilities and Artificial Intelligence - Leveraging the Data	EEE
14	Feb 2021	Webinar on "Entrepreneurship and Start-ups"	BS - Chemistry
15	Feb 2021	Interactive session with PU students of Advaitya PU college-Hosakote, Bengaluru	BS - Physics
16	Feb 2021	Technology Webinar	COE: Intelligent robotics system
17	Feb 2021	Design competition on Trade mark	COE - Additive Manufacturing



STUDENT COUNCIL 2020-21



NISHANTH V R
PRESIDENT



ABHINAB MISHRA
SECRETARY



KANYA K NAYAK
SENIOR CULTURAL SECRETARY



CHAMAN R
SENIOR SPORTS SECRETARY



S K YUKTA SWAMY
PUBLIC RELATIONS SECRETARY



SURAJ KISHOR
BOYS HOSTEL SECRETARY



ANIRBAN BHATTACHARJEE
BOYS HOSTEL SECRETARY



MANASA HOLLA
GIRLS HOSTEL SECRETARY



AKSHAYA K
GIRLS HOSTEL SECRETARY



ABHISHEK KOLARATH
CULTURAL SECRETARY



H M SHARANYA
CULTURAL SECRETARY



DEEPAK S
CULTURAL SECRETARY



KUMAR ADITYA PANI
TECHNICAL SECRETARY



SEJAL KSHEER SAGAR
TECHNICAL SECRETARY



SHAIK ADIL AHMED
TECHNICAL SECRETARY



SHREESHA SAMEERNATH
SPORTS SECRETARY



INDULEKHA THARUN
SPORTS SECRETARY



JATIN SINGLA
LITERARY SECRETARY



VARSHA ASHOK
LITERARY SECRETARY

ALUMNI ASSOCIATION

NOTABLE ALUMNI

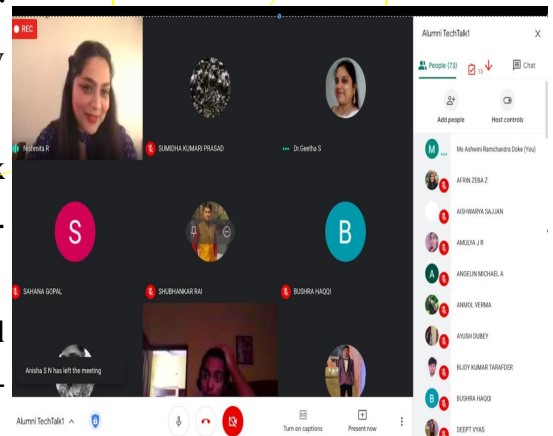
CMRIT Alumnus **Dr. Sumeet Kumar (2004-2008)** is a Co-founder & CEO of Innatera Nanosystems B.V, Delft, Netherlands which is a semiconductor startup that aims to simplify sensor data analytics in power constrained devices. It develops ultra-efficient microprocessors that mimic the brain's mechanisms for processing fast information streams from multiple sensors.

He is a member of the IEEE, IEEE Circuits and Systems Society and the IEEE Computer Society. He currently serve on the Program Committee of the International Symposium on Networking and Computing (CANDAR), and as reviewer for ACM Transactions on Embedded Computing Systems (TECS), IEEE Transactions on VLSI Systems (TVLSI), IEEE Transactions on Parallel and Distributed Systems (TPDS), IEEE International Symposium on Circuits and Systems (ISCAS), and the Midwest Symposium on Circuits and Systems (MWSCAS).

" <https://www.linkedin.com/in/sumeetskumar/> "



- Department of CSE organized Alumni talk on “**Interview tips and preparation**” by **Ms. Priyanka Srivastava, VM Ware, Bangalore** on 4th Sep2020.
- Deptmt of EEE organized alumni talk on "**Five books which influenced my life and career**" by **Uday Deepak Devulapalli, Healthcare Global Enterprises** on 26th Sep 2020
- Department of ISE organized Alumni talk on “**Higher Education**” by **Ms.Nishmitha Ravindranath(advisory consultant), Deloitte USA** on 16th Oct 2020.
- Department of MCA organized Alumni talk on “**Block Chain**” by **Ms.Keerthana, Software Engineer, Accenture, Bangalore** on 24th Oct 2020
- Department of MBA organized an Alumni Talk on "**Build Your Personal Brand**" by **Mr. Akash Guruprsannna, alumnus of 2008-12, product Manager at IBM** on 11th Nov 2020 .
- Deptmt of EEE organized alumni talk on "**How to develop a career with passion?**" by **Sahana L, Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH** on Nov 2020.





Alumni Association



Connect to CMRIT Alumni
network -

<https://alumni.cmr.ac.in>

ARTICLES/PAPERS

TOGETHER AS A TEAM MAN CAN DO IT

Scientists from NASA launched space craft named OSIRIS-REx (Spectral Interpretation, Resource Identification, Security, Regolith Explorer) on 8th September 2016 to a asteroid named 101955 Bennu with a sample return capsule (SRC) to collect the rocks and sand samples. The asteroid is at distance of 205 million miles (330 million km) from Earth, which needs 18.5 minutes delay for signals travelling on each direction travelling. The space craft after travelling for around four years reached and started collecting the sample of around 60 grams weight started on 24 October 2020 and mission was completed on 28 October 2020. The Touch-And-Go Sample Acquisition Mechanism's (TAGSAM) wrist alignment was ensured that the collector head was being placed properly into the SRC and all the samples are properly stored.

NASA scientists noticed some of these particles appeared to be slowly escaping from the head. A mylar flap designed to keep the sample inside the head appeared to be wedged open by some larger rocks. Now that the head is secure inside the SRC. This a major achievement to commend the space craft at such a far distance and achieving the proper operation.

The OSIRIS-REx team will now focus on preparing the spacecraft for the next phase of the mission – Earth Return Cruise. The departure window opens in March 2021 for OSIRIS-REx to begin its voyage home, and the spacecraft is targeting delivery of the

SRC to Earth on Sep. 24, 2023.

The solar-orbiting Bennu is believed to hold the preserved building blocks of the solar system. Scientists believe the remnants can help explain how our solar system's planets formed billions of years ago and how life on Earth came to be. The samples also can help improve our odds, like, if a doomsday rock heads our way.

Ismail Pasha S R
Alumnus (2014-18)



ARE SUPERCAPACITORS THE FUTURE OF ENERGY STORAGE?

Before we get into the nitty-gritty of whether supercapacitors can really change energy storage, let's take a look at the conventional lithium-ion batteries and capacitors.

Lithium-ion batteries consist of a cathode and an anode submerged in a liquid electrolyte and separated by a micro-perforated separator which allows the ions to pass through during the chemical reaction. But these reactions degrade the battery over time, giving them a limited lifespan. But one benefit of battery technology is a very high specific energy.

Capacitors are different, they don't rely on chemical reactions to function, and instead they store potential energy electrostatically by using a dielectric between the plates to separate the charges.

Unlike a battery, a capacitor has a much higher power throughput, so it can charge and discharge in a fraction of a time. But they have a very low specific energy. It's good for a very small burst of power.

That's where supercapacitors bridge the gap between a battery and a capacitor. Its design is similar to a



battery with metal plates at the end and electrolyte on either side of the insulator. When current is applied, ions build up on either side of the insulator and create

a double layer of charge. Also, the distance between the plates is one-thousandth of a micron, this smaller distance leads to a larger electric field i.e. more energy storage.

So where are they used? In general, they are found to have the biggest potential for application in hybrid-transportation and are mainly being used for power regeneration system during deceleration. In other words, when cars are slowing, the energy generated from that action is stored by supercapacitors on-board and later used for acceleration, saving batteries for less strenuous action.

However, supercapacitors still can't compete with Li-ion batteries when it comes to high specific energy and long-term storage. But it seems that in unison with Li-ion batteries supercapacitors are slowly building an important role in hybrid-electric technology. Therefore supercapacitors are not replacing Li-ion batteries anytime soon and there is a long way to go before

they become the main energy storage device.

Bathineni Kowshik
(1CR19EE019)



FINANCIAL INVESTMENT **FOR EVERYONE**

It is human nature to plan for rainy days. An individual must plan and keep aside some amount of money for any unavoidable circumstance; it's difficult to make predictions especially with regards to future. Future is uncertain and one must invest wisely to avoid financial crisis in any point of time. Let us first understand what is investment? Investment is nothing but employment of funds with the aim of achieving additional income. In simple words, Investment refers to sacrificing of current income to enjoy future benefits. An individual must plan his future well to ensure happiness for himself as well as his immediate family members. Consuming everything today and saving nothing for the future is foolish.

What is Financial Investment?

Financial investment refers to putting aside a fixed amount of money and expecting some kind of gain out of it within a stipulated time frame.

Types of Financial Investment:

An individual can invest in any of the following:

- Mutual Funds
- Fixed Deposits
- Bonds
- Stock
- Equities
- Real Estate (Residential/Commercial Property)

- Gold /Silver
- Precious stones

Need for Financial Investment:

Financial Investment ensures all your dreams turn real and you enjoy life to the fullest without actually worrying about the future. Financial investment ensures you save for rainy days. Careful investment makes your future secure. Financial investment controls an individual's spending pattern. It decides how and what amount one should spend so that he has sufficient money for future.

What is Important in Financial Investment?

1. **Planning plays a pivotal role in Financial Investment.** Don't just invest just for the sake of investing. Understand why you really need to invest money? Careful analysis and focused approach are mandatory before investing.
2. **Explore all the investment plans available in the market.** Go through the pros and cons of each plan in detail. Analyse the risk factors carefully before finalizing the plan.
3. **Appoint a good financial planning manager who takes care of all your investment needs.** He must understand your requirement, family income, stability etc to decide the best plan for you.

One needs to be a little careful and sensible while investing.

Remember, the two rule of investment – The first is, “Don't lose” and the second rule is, “Don't forget the first rule”.

Rashmi A
(1CR19MBA70)



CULTURE OF KARNATAKA

Karnataka is woven with its rich and varied culture. Art and culture of Karnataka is vivid, vibrant and variant. There are various folk dance forms which highly contribute to the rich art and culture of Karnataka. Folk dance is a dance form created by the people, depicting the life of them in certain region. Some of the major folk dance forms of Karnataka.

Yakshagana is a traditional Indian theatre form, developed in Dakshina Kannada, Udupi, Uttara Kannada, Shimoga and western parts of Chikmagalur districts, and in Kasaragod district in Kerala that combines dance, music, dialogue, costume, make-up, and stage techniques with a unique style and form.



Towards the south from Dakshinakannada to Kasaragod of Tulu Nadu region, the form of Yakshagana called as 'Thenkuthittu' and towards north from Udupi upto Uttara Canara it's called 'BadagaThittu'. A typical Yakshagana performance consists of background music played by a group of musicians and they make use of unique instruments such as maddale (hand drum), the pungi (pipe), the harmonium (organ), and the chande (loud drums). Yakshagana starts and ends with a prayer to Ganesha. Yakshagana costumes are rich in color and ornaments are made out of light wood, pieces of mirror, and coloured stones.

DolluKunitha is high on energy dance performance and performed all over the state during major festivals and celebrations. It is associated with the worship of

SreeBeeralingeswara who is considered as a form of themselves up as nagakannikas or female serpents and



Lord Shiva, dance around an elaborate design painted on sacred originated in the ground which represents the serpent spirit and is the rituals of the object of their worship. It is an elaborate pattern drawn Kuruba Gowda in natural colours. Traditional and symbolic patterns community of North Karnataka. Drum dance is usually



performed in a circular or semi-circular fashion with drum holders beating their drums in rhythm, along with singing and accompanying music. It is an integral part of various temple festivals, cultural events like Karaga festival procession, Mysuru Dasara, Bengaluru Habbatec

hold the serpent image at the very centre.

Karaga originated as a ritual dedicated to Draupadi.

The rituals have their origin in the Mahabharata,

Bhootha Aradhane or devil worship is very common in the coastal towns of Karnataka. Idols representing

particularly in the vastrakshepa (stripping) of Draupadi, the exile



‘bhoothas’ of the Pandavas and are taken the death of out in a Draupadi's sons at procession the hands of to the Ashwathama. After beating of all these trials and drums and tribulations, she



bursting of firecrackers. As the procession ends, the idols are placed on a pedestal. Panjurli, Bobbarya, Pilipoota, Kalkuda, Kalburti, Pilichamundi, KotiChennaya are some of the popular gods (Bhoothas) worshipped as part of Bhootada Kola. Some of the Bhootada Kola rituals also involve walking on a bed of hot coal. Bhootada Kola is performed in small local communities in rural parts of Dakshina Kannada and Udupi districts.

emerged as a symbol of strong and ideal womanhood.

The ritual pot filled with water and adorned with decorations several feet high is carried by the priest.

The dancers perform various acrobatic feats while following the procession accompanied by a number of

musical instruments like 'Thavi', "Nadaswaram", "Muni", "Udukka", "Pamba", etc.

Nagamandala is usually performed by male dancers called Vaidyas. In the time of the ritual they dress

Ramya S
1CY19MCA65



DATA DRIVEN DECISION

MAKING IN HR

HR Analytics is the process of collecting and analyzing data related to Human Resources for enhancing workplace performance and efficacy.

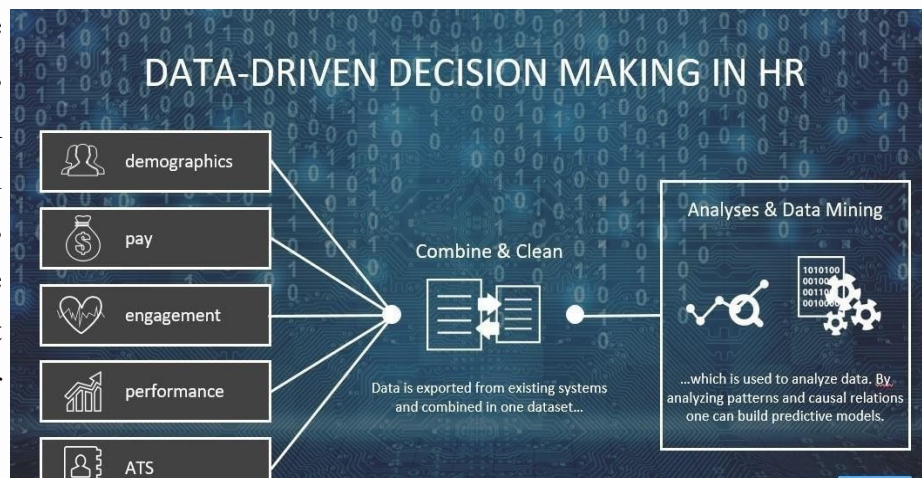
There are different terms to define HR Analytics which include terms like people analytics, talent analytics or workforce analytics. HR

Analytics provides deep insights on the areas that are performing well and the areas where loopholes occur. This process helps in increasing the revenue and productivity of an organization. One of the biggest advantages of HR Analytics is to analyze the past data and analyze the reasons of employee turnover. In addition to this, the collected data can help in understanding the performance of the current employees. A better understanding of workplace environment can also be identified by making proper use of the collected data regarding the satisfaction, engagement and performance of employees.

The main goal of HR Analytics is to transform data into information which is further helpful in devising strategies. If used in a proper way, HR Analytics can measure the financial impact of Human resources by taking out the “guess work” out of business. This ultimately helps in mitigating risks and generating more revenues for the business. HR Analytics covers

the metrics of HR functions like hiring of employees and their training expenses. Some other key areas where role of HR Analytics come into play include revenue per employee, offer acceptance rate, training expenses, training expenses per employee,

involuntary turnover rate, voluntary turnover rate, absenteeism and human capital risk. While collecting the data, it is important to collect related and quality data that



can be quantified for further use.

HR Analytics undoubtedly is one of the potential areas of management that can be used to streamline processes and improve the bottom line of the business.

Prof Sabeha Mufti,
Assistant Professor
MBA Department

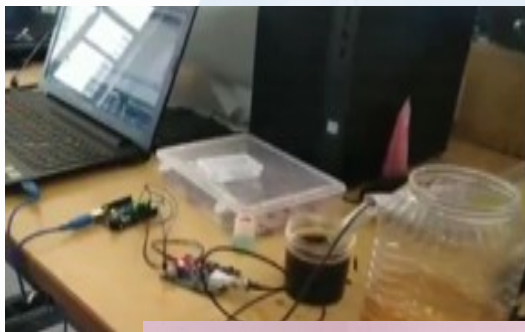


THE INTERNET OF THINGS (IOT)

The Internet of things (IoT) refers to the billions of physical devices around the world that are now connected to the Internet. Imagine being able to switch on or off a light bulb using a smartphone app or tracking our health with a smart-watch! So many devices around us are models of IoT, such as phones, laptops, refrigerators, cars, and the list goes on. Aren't we living in a smart world since the evolution of IoT? It has indeed made our lives effortless, allowing us to

operate everything at our fingertips. It is a revolutionary approach for future technology as it provides innovative solutions to challenges and issues related to various business, government, and public/private industries across the world.

The question arises how does IoT work? It has sensors and actuators that collect data from the surroundings and communicate it via networks or cloud-based platforms connected to the IoT. Next, the data is analyzed to get meaningful insights and patterns; then, a decision is made. This decision is then conveyed to our device. However, IoT development is in trouble with various security concerns regarding privacy, hardware issues, side-channel attacks, and insecure software. These should be addressed by including built-in security features and studying possible threats before building IoT apps.



Another unique technology is IOTA, “the backbone of IoT” is an open-source distributed ledger designed to support frictionless data and value transfer between humans and machines. It has no blocks, no miners hence enabling low resource requirements. It also



ensures that the information is trustworthy and cannot be tampered with or destroyed. Overall, IOTA is poised to play a central role in the next industrial revolution.

CMRIT has set up Centre of Excellence (CoE) in Data-driven IoT. Here ISE and ECE department faculty members and students work on problems of societal interest. Some of the projects undertaken in the COE are; Development of Automated Table Cleaner for college canteen, Design of Smart water resource management, Development of Monitoring System and Development of Low-cost device for toxic air detection in manhole, water sumps, and mining, which was approved nationally and was funded by the Texas instruments.

IoT offers an unprecedented degree of control and efficiency that no industry can ignore. It is a lucrative field with lots of potential for careers.

Harshitha N
1CR17IS039



TESTIMONIALS



**N Raghavendra Rao,
General Manager,
Kanva Diagnostics Pvt. Ltd.**

Our journey with CMR Institute of Technology and CMR Group of Institutions has been a highly memorable one. Extremely impressed by the discipline, culture, quality of teaching and value

systems while at CMR PU College, we were very clear from day one that our daughter should continue in this setup itself. And CMRIT did not disappoint us one bit. Infact, it exceeded our expectations! Especially the Mechanical Engineering Dept that has taken so much care and interest in fostering and nurturing my ward's ambitions.

All the faculty are highly knowledgeable, very strongly rooted in their fields of expertise, highly approachable and encourage students to pursue engineering in it's truest sense - more than the scope of what the syllabus offers. Undoubtedly, this closely- knit student - teacher mentoring systems is what sets CMRIT apart from most institutions. We are also very happy with the Research and Innovation culture that CMRIT has. Given my daughter's aspirations, this environment aligned perfectly in line with her passion and career orientation. Even as parents, the whole hierarchy of Institution Heads and Faculty were always ready to communicate and partake in the ward's progress with much gusto and fervent. To sum it up, as words may not be enough to express our gratitude towards CMRIT and all it's stakeholders, in the current era of excessive professionalism and business, CMRIT deserves all the bouquets (and not a single brickbat) for maintaining the sanctity of education, the quality of education

and upholding the integrity of the legacy that CMR Group of Institutions have established from eons now!



**Amit Bikram,
Alumnus
2009-12**

I am
very glad

to share my experience in CMRIT college as a MCA student. The faculties are quite helpful and professional; you can feel comfortable to share your difficulties. The atmosphere is friendly. They support and appreciate new and innovative ideas. Apart from study in extracurricular activities you can develop new skills and enjoy a lot. I would like thank all the lecturers for their support, guidance and encouragement.

**Madhavi S,
Teacher,
BGMS School**



CMRIT is a good platform for students to gain good knowledge and improve their skills. Not only in academics, has it also provided students to explore their talents in various cultural activities. MBA gave a better exposure and good placement. I'm happy that my daughter has got into good college like yours.



Akash V Naik
Alumnus
2014-18

Fabulous and rewarding is how I would describe my four years of engineering experience at CMRIT. I did not know what to expect in the beginning. The platform that the college provided made me realize what I am capable of doing. Wide opportunities in the form of our cultural fest Cultura, exposure I had in the placement department, support from my faculty and the fun I had with my family of friends say that it has been a great journey for me. I can positively say that choosing electrical and electronics as my stream was the best decision. I am grateful to the administration in having the faculties who are not only experts in the subject but also caring and supportive. The opportunities and facilities provided in terms of workshops and laboratories made it even better. The experience of such an established department has always been welcoming to me.



Geethashree R
Alumnus
2013-16

The life at CMRIT is amazing with good infrastructure and satisfactory placements. I am absolutely satisfied with our college. The college infrastructure is really good with all the necessary facilities and equipment. All amenities are well maintained. The college has qualified and experienced faculty, The faculty members here are very helpful and benevolent. They helped me and other students in clearance of doubts and any such problems related to their subject. Also, every semester we incorporate our new ideas and researches in the form of mini projects. The college canteen is well-equipped. The college also has various student clubs both technical and non-technical. Scholarships are also available. The college also conducts annual fest (Cultural) and regular sports events. Overall, a good college which I can recommend to others Because It is a college with a vibrant community, active student body and ever-supportive faculty members. Good place for the upcoming engineering aspirants and the workspace environment is really lively and positive which helps in overall development for personal and professional growth.

Shantha Ravi Thilagan

Hearty congratulations sir for 'Top' in the ranking of Institution Innovation Councils by Ministry of Education's Innovation Cell in the South-West Zone. . I am happy that my son is studying in one of the top college. I wish you remain always at the top sir. My heartiest to one and all staff and students of the college sir.

VISION

"To be a nationally acclaimed and globally recognized institute of engineering, technology and management, producing competent professionals with appropriate attributes to serve the cause of the nation and of society at large"

MISSION

"Create the necessary infrastructure appropriate to the needs of the programmes and activities of the institution."

"Create and facilitate an ambience for interdisciplinary engagement, leading to a healthy competition among students and staff, in pursuit of excellence through lifelong learning."

"Attract and retain well-qualified faculty and supporting staff."

"Create mechanisms to understand societal needs and provide solutions for the betterment of society."

"Develop and operate mutually-beneficial programmes, partnering with industries, institutes and individuals of national and international repute."

THE CMR GROUP

CMR University

CMR Life Skills Institute

Ekya School, ITPL

CMR Institute of Technology

CMR National PU College

Ekya School, J.P Nagar

CMRIMS (Autonomous)

CMR National Public School

Ekya School, Kanakapura Road

CMR University School of Legal Studies

NPS International School, Singapore

Ekya School, BTM Layout

Ekya School, Byrathi

