

# CMRIT CONNECT



## CMR INSTITUTE OF TECHNOLOGY

#132 | AECS Layout | IT Park Road | Bengaluru | 560 037 | INDIA

Tel: Dir: +91 80 28524466 / 77 x 225



## Editorial Board



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Head– Student Club & Alumni Cell



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**Prof. Prasad B S**  
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Asst Prof (ENG)

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Send your Feedback and suggestion on CMRIT Connect at

[newsletter@cmrit.ac.in](mailto:newsletter@cmrit.ac.in)

## From Editor's Desk

*"Nothing will work unless you do" -Maya Angelou*

*Greetings!*

*We are really proud and exuberant to acclaim that we are ready with all new hopes and hues to bring out the 3<sup>rd</sup> Issue of CMRIT Connect Vol. 3, which is going to surely unfold the unraveled world of the most unforgettable and precious moments of the college in the last few months. We are sure that the positive attitude, hard work, sustained efforts and innovative ideas exhibited by our faculty and students will surely stir the mind of the readers.*

*We thank all those who have been part of this newsletter and look forward for your constant support in the days to come.*

*Happy Reading!*



## MESSAGE FROM THE PRINCIPAL

*Dear Reader,*

*We at CMRIT believe that 'Innovation for a positive change' leads to success - whether it is for an individual, an organization or a country. The revised Bloom's taxonomy also puts 'creativity' at the highest level for learning outcomes. CMRIT gives special focus to design thinking, generating new ideas, and developing technological solutions.*

*To provide an arena to innovate, we have now adopted a new village 'Chokkanahalli', we have collaborated with 'Enable India', we are associated with five villages under 'Unnat Bharat Abhiyan', and we have mandated 'entrepreneurial' projects for all students. Both our faculty and students are also undergoing training on 'Design Thinking' and 'Intellectual Property Rights' through experts in the field.*

*Our facilities of 'Makerspace', 'Centres of Excellence', 'I&E Cell', 'MHRD IIC', 'KSCST IPR Cell', 'MSME incubation Centre' and an MoU with 'National Research Development Council (NRDC)' provide an ecosystem to convert ideas into products or patents, to license technology, to request funding under MSME, and to incubate a start-up. We hope with this system in place, our students and faculty will be able to innovate and succeed as entrepreneurs.*

*We are also proud to share that seven of our students got University ranks, many students score centum marks in different subjects, and many won national and international awards in various competitions, sports and cultural events. Our NSS volunteers also conducted many social activities helping schools, villages and creating awareness among general public. We are also now associated with 'Society of Women Engineers' to provide a global platform to our students to collaborate and compete.*

*Our TYL (Tie Your LACES) program continues to help students to become industry-ready with better job opportunities. Our internal TYL hackathons provide students a competitive environment to test their skills. The new special 'core' tests in every semester are helping students to strengthen their fundamentals.*

*Our faculty are putting best of their efforts in transforming students into successful professionals as well as enhancing their own knowledge and skills in the journey towards CMRIT's vision. I hope you will enjoy the content of this edition of CMRIT Connect!*

**Dr. Sanjay Jain**  
**Principal**

## MESSAGE FROM THE VICE-PRINCIPAL



*Dear Reader,*

*I am delighted to extend my heartfelt greetings to the readers of the 3<sup>rd</sup> Issue of CMRIT Connect Vol. 3 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. We offer many opportunities to students and staff to explore their interests and new ideas through various clubs and center of excellences. I believe, the newsletter giving some glimpse towards achieving our vision.*

***Dr. B. Narasimha Murthy***  
***Vice Principal***



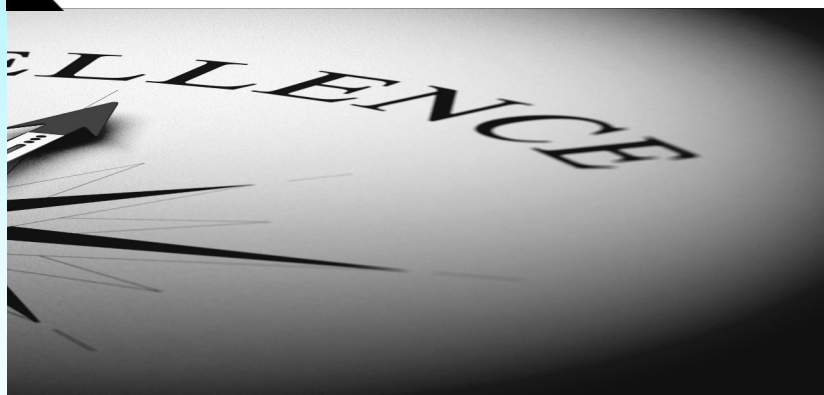
## HOD'S COLUMN

*Hello Readers,*

*I'm very glad to reach out to you all through this quarterly newsletter of our institute in this New Year. It has been another fantastic journey for the institute. The past quarter has been really adventurous and enthralling to us here. While "intellectualism" is the attire being donned by educational institutions, CMRIT stands for its "Wisdom". CMRIT is always committed not only for its students, but for the industry and society as well. The kinds and levels of programs that we have in the institute signify the dedication we have toward all the stakeholders. The unique system we have at CMRIT fosters the culture of questioning the conventions and seeks probable solutions in most sustainable forms. These solutions for the real-life problems are in fact put under rigorous check and are deployed to the stakeholders, be it the industry or society. Faculty here are always guiding the students in their pursuit of finding out themselves; their real selves and mentor them in a direction that they can find rewarding careers for themselves. Faculty don't limit themselves to classroom teachings, in addition they actively take part in research and consultancy activities which contributes to the growth of the industry. They collaborate with industry and share the expertise between them for the benefit of students as well as industry. I'm truly glad that the department of MBA has its own share in supporting the institute in attaining its goals and will strive further for the success of all the stakeholders of CMRIT. Wishing you all a very happy New Year - 2020*

***Prof. Sandeep Kumar M,***  
***Head, Department of Management Studies.***

# COEs AND I&E CELL



## CoE MATERIAL SCIENCE

- Research scholars **Ms. Sangeetha R. and Ms Lakhirupa Devi** participated in the poster presentation of research undertaken at CoE, attended lectures and engaged in peer interaction at International Conference on Advanced Nanomaterials and Nanotechnology held at IIT-Guwahati.
- **Prof. Chaitanya Lekshmi Indira and Prof. D. D. Sarma** received research project grant of Rs. 18.3 lakhs for “Investigations on colossal magneto dielectrics of Fe<sub>3</sub>O<sub>4</sub>-ZnO, Fe<sub>3</sub>O<sub>4</sub>-a-Fe<sub>2</sub>O<sub>3</sub> and NiFe<sub>2</sub>O<sub>4</sub>NiO nano composites analyzing A and B site transition metal ion ordering of the Ferrite lattice” from DST- SERB.
- **Prof. Chaitanya Lekshmi Indira** served as a resource person at 3 days International Workshop on Catalysis and Applications from 28<sup>th</sup> to 30<sup>th</sup> Jan 2020 held at M G University, Kottayam

## CoE INTELLIGENT ROBOTICS SYSTEM

- **Prof. Velraj Kumar P** served as Journal Reviewer for Journal Journal of Engineering Science and Technology
- **Prof. Velraj Kumar P** served as Evaluator in Internal Hackathon for Smart India Hackathon 2020 at CMRIT
- **Prof. Velraj Kumar P** served as Evaluator in Mega Project Demo at CMRIT
- **Prof. Ramesh P and Prof.Velraj Kumar P**

submitted Patent on “Vacuum Cleaning Robot” at IP India.

- **Prof. Ramesh P and Prof.Velraj Kumar P, Kodandapani Depa** submitted Patent on “Vacuum Cleaning Electric Vehicle for outdoor” at IP India.

## CoE INTELLIGENT ENERGY SYSTEM

**Prof. Lakshmanan M** served as Evaluator in Internal Hackathon for Smart India Hackathon 2020 at CMRIT.

## COE SENSORS AND NANO-ELECTRONICS



- **Prof. Chaitanya Lekshmi Indira** served as a resource person at Workshop on Electrochemistry Techniques(WET), CSIR-CSIO, Chandigarh.
- **Prof. B Narasimha Murthy, Prof. Chaitanya Lekshmi Indira and Prof. Vinay B.K** received project grant of Rs. 38.08 lakhs for “Design & construction of Amperometric catechol biosensor and investigations of analyte interference for technology development to aid near zero discharge of effluents to Indian waterbody

systems from DSTTMD optimal use of water In Industrial sector” from DSTTMD optimal use of Water in Industrial sector.

## CoE INTEGRATED CIRCUITS

- **Prof. Amit Jain** served as Journal Reviewer for Journal of Computational Electronics (JCEL).
- **Prof. Amit Jain, Anindita Ghosh (1CR15EC020), Bhamidipati Srinivas (1CR15EC039), Chaya N (1CR15EC048)** published a research paper titled “A Ultra Low Power Low noise Operational Transconductance Amplifier for Biomedical Front-end Applications” at ICICT-2020 (IEEE).

## CoE METALLURGICAL ENGINEERING

- A Three day certificate course on Crystallography and Crystallographic Texture was organized by the Centre of Excellence for Metallurgical Engineering from 22<sup>nd</sup> to 24<sup>th</sup> Jan 2020.



## CoE EMBEDDED SYSTEMS

- **Prof. Chetan Gowda** served as a Journal Reviewer for CITEI 2020 and for IJAI'20.

## CoE INTELLIGENT HUMAN COMPUTER INTERACTION

- **Prof. Abdul Rasheed** served as a keynote speaker at National Conference on Cyber security on 17<sup>th</sup> Feb 2020

## CoE SIGNAL PROCESSING

- **Prof. Binish Fatimah** serves as Journal Reviewer in Biomedical Signal Processing and Control

## CoE FINANCIAL MARKETS

- Organized an Expert Lecture on “Investment” by Mr. Divyansh, Trackinvest, Bangalore on 19<sup>th</sup> Feb 2020.



## I&E CELL

- **Mr. Ravi Kiran**, Managing partner and CMRIT had an MoU for technology transfer and mutually agreed upon Rs.30,000 per month for a period of one year and renewal of the same every year based on the progress of the R&D provided to the company in yield of slimming segment.

- Two day **Training Program** was organized on “Patent Training and Drafting for



Faculty” by Prof. Phani Kumar Pullela on 3<sup>rd</sup> and 4<sup>th</sup> Feb 2020.

- **Training Program** was organized on “FKCCI prelims ” by Prof. Phani Kumar Pullela on 5<sup>th</sup> Feb 2020.



- Seven day **Training Program** was organized on “Design Thinking by Panchatantra” by Prof. Phani Kumar Pullela from 10<sup>th</sup> to 17<sup>th</sup> Feb 2020.



- One day **workshop** was organized on “Indian patent law and design” Mr. Swapnil Gawande, BLI Consultancy on 27<sup>th</sup> Feb 2020.



- **Funds received by CMRIT I&E and SC/ST cell**

CMRIT I&E Cell and SC/ST Cell received grants worth Rs.67,500 and Rs.5,50,000 in the months of January and February respectively through funding agencies. I&E Cell also generated revenues worth Rs.18,000, Rs.98,000 and Rs. 92,000 in the months of December, January and February respectively through patents and entrepreneurship revenue.

I&E Cell team includes **Mr. Sharath Kumar D, Mr. Kodandapani D, Mr. Chidhananda R S, Mr. Srinivas Reddy Mungara, Dr. Phani Kumar Pullela.**



# WORKSHOPS/ FDP



- Department of **Civil Engineering** organized 2 day workshop on “Survey Instruments” by Prof.Guruprasad Prof.Naresh Dixit and Prof.Karthik N M on 9<sup>th</sup> and 10<sup>th</sup> Jan 2020.



Bangalore), Dr. Joshua Samuel Raj, Dr. S.Saravanan from 31<sup>st</sup> Dec'19 to 3<sup>rd</sup> Jan'20.



- Department of **ISE** in association with **Computer Society of India(CSI)** organized 4 day FDP on



“IoT and Machine Learning” by Mr. A.T Kishore (CEO - Vidhya Sangha Technologies,, Bangalore), Mr. Bharath Kumar (Analytica 6,

- Department of BS-Physics organized workshop on “Effective teaching through experimental models” by Dr.Raveesha K. H on 04<sup>th</sup> Jan 2020.



- Department of **Civil Engineering** organized a workshop on “Pursuing Higher Studies in Canada”by Mr. Kumar Gaurav Singh, Alumni





from University of Windsor on 22<sup>nd</sup> Feb 2020.

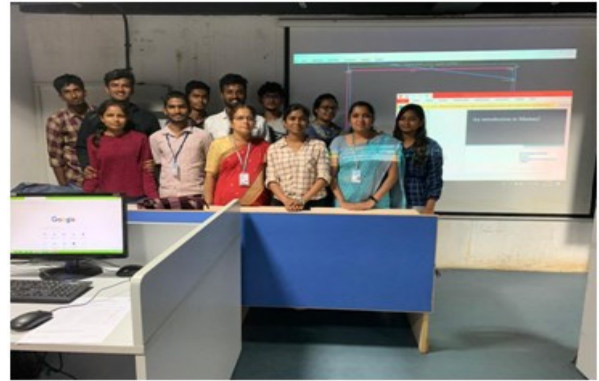
- Department of **Civil Engineering** organized a workshop on “Pursuing Higher Studies in UK” by Mr. Kevin Philip James, University of Glasgow on 25<sup>th</sup> Feb 2020.



- Department of **Civil Engineering** organized a workshop on “Design thinking” by Preeti J and Karthik N M on 20<sup>th</sup> Feb 2020.



- Department of **Civil Engineering** organized a workshop on “Mastan” on 26<sup>th</sup> Feb 2020.



- Department of **EEE** organized a two day workshop on “Design Thinking” by Dr. Agalya, Associate Professor on 12<sup>th</sup> & 13<sup>th</sup> Feb 2020.



- Department of **BS- Mathematics** organized FDP on “Discrete Mathematics” by Prof. Hanumantha Ravi, Prof. Girisha, Prof. Rajendra, Prof. Prathap D, CMRIT on 03<sup>rd</sup> Feb 2020.



# DEPARTMENT TECHNICAL ACTIVITIES



## DECEMBER-19

- Department of **MBA** organized guest lecture on “Career Opportunities In Data Analytics And Science” by Mr. Chander Wanchoo, Tata Communication, Bangalore on 12<sup>th</sup> Dec 2019.



Photonics division, Pennsylvania, United States visited CMRIT on 8<sup>th</sup> Jan 2020 to give a lecture on "Energy Optimization of Data Center Interconnects Using Silicon Photonics"



- Department of **MBA** organized guest lecture on “Emotional Intelligence” by Mr. Suresh Babu and Ms. Annapurna.A, CIMSME, Bangalore on 09<sup>th</sup> Dec 2019.



## FEBRUARY-20

- Department of **Civil Engineering** organized a Expert Lecture on “Career Opportunities for Engineers & Architects in Built Environment “by Dr. H R Pradeep, Associate Director, RICS, Amity University Mumbai on 20<sup>th</sup> Feb 2020



## JANUARY-20

- Dr. Kadaba R. Lakshmikumar, Principle Engineering Manager at Cisco Systems’ Silicon

- Department of **Civil** Engineering organized a Expert Lecture on “Project Management” by Sri. Deepak Kumar, Managing Director, A3 Group of Companies on 19th Feb 2020.



Scholar, University of Utah, USA on 20<sup>th</sup> Feb 2020.



- Department of **CSE** organized a Expert Lecture on “Challenges Before Research and Sharing Research Outcomes” by Dr.

L.Prathap Reddy, Prof. and Former R&D Cell (ECE) HEAD, Treasurer & Mentor, FSMK on 15<sup>th</sup> Feb 2020.

- Department of **CSE** organized a Expert Lecture on “JMP Statistical Discovery” by Dr. Muralidhara



Ananda Murthy, Academic Ambassador, JMP Statistical Discovery from SAS on 27th Feb 2020.

- Department of **CSE** organized a Expert Lecture on “Networking through GNS” by Mr. Yesudian Rajkumar J K, Free Lancer on 27th Feb 2020.



- Department of **ECE** organized a Guest Lecture on “Artificial Intelligence Neural Network Based Systems, Deep Learning” by Mr. J Vinu Research

- Department of **ECE** organized a Guest Lecture on “Approach to Career in Robotics Industry” by Akshay.P, Robotics Trainer, Sirena Technologies on 15<sup>th</sup> Feb 2020.

- Department of **EEE** organized a Expert Lecture on “Role of Intellectual Property Rights in ling and drafting patents for Industrial



Design” by Dr.V.Agalya & Associate Professor, Mahendra College of Engineering, Tamil Nadu on 21st Feb 2020.

- Department of **Mechanical** Engineering organized a Guest Lecture on “Importance of 3D Printing Technology in Present Scenario” by Mr. Vamshi Kadiyala, WOL3D Bengaluru on 20<sup>th</sup> Feb 2020.

- Department of **BS-Physics** organized a Guest Lecture on “Artificial Intelligence and Neural network” by J. Vinu, Research scholar at University of Utah, USA on 20<sup>th</sup> Feb 2020.



- Department of **BS-Mathematics** organized Guest Lecture on “Fixed Point Theorem” by K.T.Joseph, Raja Ramanna Fellow at TIFR CAM, Bangalore. on 22<sup>nd</sup> Feb 2020.



# INSTITUTE LEVEL CELLS



## WELL BEING CLUB

- The Well Being Club of CMRIT organized an “Awareness program for sustainable menstruation” on 20<sup>th</sup> Jan 2020. The speaker for the event was Mrs. Veena Krishnan who is a lawyer by profession, founder of GREEN FOOTPRINTS and is a volunteer with GREEN THE RED. She has trained with ECOFEMME, and has conducted awareness sessions across the society.



- The well being club of CMRIT organized a meditation session for staff and students by Mr Ravi and Team, Sahaja Yoga, Bangalore on 12<sup>th</sup> Feb 2020.



## PBC (PROFESSIONAL BODY CONNECT) CELL

- CSI organized Technical Event “Dark Battle” on 27<sup>th</sup> Dec 2019.



- CMRIT- IEEE Student branch received outstanding student branch for the year 2019 and received 5.7k funding for our future events.



## EE&C CELL

- **EE&C cell** organized discussion forum regarding problems in Chokkanahalli Village on 6<sup>th</sup> Dec 2019.
- CMR Institute of Technology organized an internal hackathon for SMART INDIA HACKATHON on 14<sup>th</sup> of January 2020. This hackathon was conducted with the intention of bringing out the creativity and the ability of students to bring about innovative solutions for various problem statements stated by Smart India Hackathon for both hardware and software domains. There were a total of 18 teams who



participated, of which 10 were of software and 8 were of hardware domain. One of the projects that were presented in front of the panel were: Jatayu: Anti Drone System, Tendering and procurement



system using Block Chain, AI enabled robotic trash boat. All projects were innovative and presented a creative approach to many of our modern day problems.



- **Innovation Club** conducted a basic technical event for the school children on 6<sup>h</sup> February 2020 in Chokkanahalli Village School.



- **The Foreign Language Club** organized “Open Mic” event on 27<sup>th</sup> Feb 2020. The club was first introduced in English by Mukul, next in Japanese by Sristi, followed by Nganba in Korean and finally introduced by Shamema in French.



- **The innovation club** conducted the first ever CMRIT-MUN( Model United Nations) on the 26<sup>th</sup> and 27<sup>th</sup> of February 2020. The topics of discussion were :The US-Iran war and The outbreak of corona virus.



Development Corporation and CMR Institute of Technology on 27th Jan 2020.

- Organized Patent Filing and Interactive Session by Dr. Sharana Gowda Patil Asst. Controller of Patent, Patent office, Chennai on 2nd Feb 2020.



## FOSS (FREE AND OPEN SOURCE SOFTWARE) CELL

- FOSS cell – CMRIT organized expert talk on “Importance of Open Source and its Benefits” by Mr.Rameez, Member ,FSMK on 22<sup>nd</sup> Feb 2020.



- **MSME INCUBATION:** Approved HI/BI under the Scheme of "Support for Entrepreneurial and Managerial Development of MSMEs through Incubators" of Ministry of MSME, Govt of India. Total 12 Ideas Submitted to MyMSME.gov.in Incubation Portal on 20 Jan 2020
- Total 16 Innovative Ideas uploaded on Innovate.mygov.in/Ideas-2020 on 20 Feb 2020.

- FOSS cell – CMRIT organized workshop on “Introduction to Linux and Git” by Gautham A Nagendran ,ISE, CMRIT Glug Club student Member on 22<sup>nd</sup> Feb 2020.



## MAKERSPACE

**Dr Katharina Vones**, Lecturer in Jewellery and Metal Design, University of Dundee (UK), visited Makerspace and I&E cell on 16<sup>th</sup> January 2020 to explore how Fablabs and Makerspaces helping the communities in which they are situated. They have interacted with student entrepreneurs from I & E cell who have designed and fabricated their dice game “SIWI”.

## IPR & MSME CELL

- IPR Cell have signed a Memorandum of Agreement(MOU) between National Research



## IQAC (INTERNAL QUALITY ASSURANCE CELL)

- IQAC CMRIT** organized 5 days “The CMRIT staff orientation program” from Jan 27<sup>th</sup> to 31<sup>st</sup> 2020. Around 230 faculties across all departments attended the program to learn about various initiatives of CMRIT. It was designed to orient them on various generic aspects of teaching learning, mega projects, instructional methodologies, and assessment and evaluation techniques. Mega Project display was organized by all departments. Awards for various staff were distributed for different categories by Principal and Vice-Principal. Sports activities like cricket, caroms, table tennis etc. were conducted by PED and various faculties have participated and won

prizes. Cultural Committee organized a Staff Cultural Program, Total of 17 teams performed different activities. As a token of appreciation a



CULTURAL EVENT	PARTICIPANTS
SOLO DANCE	Ms T Ninikrishna Ms Preeti Jacob
SOLO SINGING	Ms. Uma Raju Dr. Tiakaba Jamir Dr. Soundarya N Dr. R Chinnaiyan Mr. Vasanth Kumar M Ms. Rinku Talukdar Dr. Pushpa Mohan Mr. Kumar Simant

LOA (Letter of Appreciation) was awarded to all the participants.

CULTURAL EVENT	PARTICIPANTS
STAND UP POETRY & COMEDY	Dr. R Chinnaiyan Dr. Rijo Jackson Tom Dr. Hemachandra G Mr. Kashif Ahmed
GROUP DANCE	Ms. Sanitha Michail Ms. Anju Das Ms. Geetanjali Pawanekar Ms. Chithra M Ms. Reshma P Eldho Ms. Nithara P V Ms. Lokasree B S Ms. Priyanka Priyadarshini Padhi Ms. Chitralkha G Ms. Ranjitha R
GROUP SINGING	Dr. K. Chitra Dr. M. Farida Begum Ms. Sridevi S Ms. Gomathi T Dr. Helen Josephine V.L. Ms. Suganya Jeyaprakash Dr. Geetha S
OTHERS	Ms. Sanitha Michail C - Musical Instrument (Violin) Mr. Harsha B K – Drama Nangu Gottilla Dr. Naveen Kumar G N - Drama Nangu Gottilla Ms. Vijayalaxmi A -Drama Nangu Gottilla Jyoti M Roogi - Drama Nangu Gottilla



affiliated colleges participated in the workshop. Eminent professors from academia like Dr. N. J. Rao, Former Chairman, CEDT IISc Bengaluru, Dr. H. S. Guruprasad, Professor & Dean (Student



Affairs), , Dr. K. Rajanikanth, Former Advisor, Principal, M S Ramaiah Institute of Technology , Dr. B. Kanmani, Professor , Dr. S. N. Chandrashekara, BOE, VTU and Professor were invited to deliver multiple sessions in the due period for the welfare of participants.

- IQAC cell organized Five day VTU - TEQIP 1.3 Sponsored Workshop on “Outcome Based Education and NBA Accreditation” from 6<sup>th</sup> Jan to 10<sup>th</sup> Jan 2020. Over 50 participants from VTU



# FACULTY CULTURAL AND SPORTS PROGRAM



## STUDENT TECHNICAL CLUBS

### SOCE , ECO CLUBS (DEPT OF CIVIL ENGINEERING)

Essay Writing - Role Of Civil Engineers In The Nation's Development, HACKATHON, Group Discussion On Solutions To Plastic Waste, Slogan Writing On Bangalore Lakes



### SOCIETY OF MECHANICAL ENGINEERS AND PROLAB CLUBS ( DEPT OF ME)

Club Mechanical - Lathe – The way, Paper Clip Challenge, ,



### MINDSPARK , MOZIETY, ACE CLUBS ( DEPT OF CSE)

Quiz on C, IOT Quiz



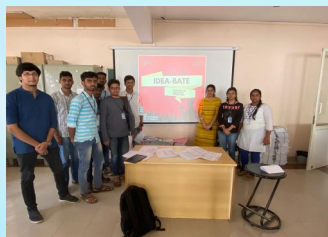
### TECHNOLIX CLUB ( DEPT OF TCE)

Python Quiz



### ETA, TAQ CLUBS ( DEPT OF ECE)

Sequence Detector, Idea – Bate, HDL Programming Contest 2020, State Machine Modelling



### SCIENCE CLUB ( DEPT OF BASIC SCIENCE)

Find the Error in Me, Crossword Puzzle Contest



## **CODING NINJAS, RISE, CODECHEF, GOOGLE DSC CLUBS ( DEPT OF ISE)**

Code Chemistry, Open source and its benefits & GLUG Day, FLOSS Essentials : Introduction to Linux and Git, TECH-QUIZ, CodeKaze



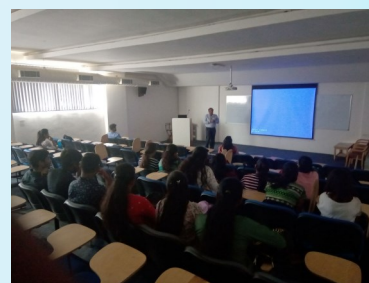
## **FEEE CLUB ( DEPT OF EEE)**

Tech Quiz, Electrical Puzzle



## **FINANCE & INVESTMENT, MARKETING & HUMAN RESOURCE CLUBS ( DEPT OF MBA)**

Ad Zap, MBTI



## **PROTOCOL CLUB ( DEPT OF MCA)**

Technical Hunt



# **TED<sup>x</sup>-CMRIT**

TEDx-CMRIT organised a salon event on the 20<sup>th</sup> of February called “Plan-it-all”. Guest for the event was CMRIT alumni Nidhi Dokania who is known for her arts and crafts.



# CONNECTING TO THE INDUSTRY



## INDUSTRY VISIT

- Department of **MBA** organized an industrial visit to Dairy Classic Ice Cream Pvt. Ltd. Harohalli, Bengaluru on 5<sup>th</sup> Dec 2019.



- Department of **BS- Mathematics** organized an educational visit to Tata Institute of Fundamental Research, Yelahanka on 15<sup>th</sup> Feb 2020.



- Department of **MBA** organized an industrial visit to Hindustan Coca Cola Beverages Pvt. Ltd. Bengaluru on 16<sup>th</sup> Dec 2019.



- Department of **BS- Physics** organized an industrial visit to Indian Institute of Science, Bangalore on 29<sup>th</sup> Feb 2020.



- Department of **Civil Engineering** have signed an MOU with Regalia Civils.
- Department of **MBA** organized an industrial visit to Regional office of Reserve Bank of India, Bangalore on 25<sup>th</sup> Feb 2020.



- The Department of **Management Studies** have signed a MOU with Fintech Info system Pvt. Ltd., Singapore on 17/2/2020.

# CONNECTING TO THE COMMUNITY



- **CMRIT@PU\_Outreach-Programme** : Faculty team from CMRIT visited Arunodaya PU College, Govt. PU College, Nandagudi, Hosakote, Bengaluru on 18<sup>th</sup> Dec 2019 and provide the guidance on problem solving skills, competitive exam, presentation techniques with mock test to all PU students.



- **Republic Day at CMRIT**



- **Matrubhasha Diwas**, a day to create awareness and celebrate the importance of our mother tongue was organised in our college on 22nd Feb 2020 by **Samskruthi Kannada Club**.



- **ROTARACT Club** had organized a “Climate Change Walkathon” on the 22 Feb 2020 (Saturday) from 6:30 AM to bring awareness about the long-term effect of rising temperatures

that are endangering lives and crippling economic activity. Students and faculty were involved.



- **ROTARACT Club** has organized “Play For a Cause” on 27<sup>th</sup> Feb 2020, a Fund-Raiser for the all the sports enthusiasts and the money collected was utilised to provide Sanitary Napkins for Underprivileged Girls and Women



- **ROTARACT Club** has organized “Wins Event” on 29<sup>th</sup> Feb 2020, the objective was to improves children's health, school enrolment, attendance and retention and paves the way for new generation of healthy children.



- **Anti Sexual Harassment Committee** of CMRIT organised POSH (Prevention of Sexual Harassment) on 26th Feb 2020. The resource person Prof.Preeja Sreedhar, ISBR, Bengaluru, who works as a Leadership coach Mu Sigma, discussed about Prevention, Prohibition and Redressal of sexual harassment issues.

- **7 Day NSS ANNUAL SPECIAL CAMP-2020** was held at Lower primary school, Chokkanahalli, Jala Hobli, Bangalore with the Theme: Youth for Nation: One Life One Mission.



# TRAINING AND PLACEMENTS



## TYL\_TIE-YOUR-LACES PROGRAM

- Tie Your LACES (TYL) is a program to improve the employability of students when they go for placement drives in their final year. It helps students in their holistic development required for Corporate Jobs or for any career option they choose. TYL Trainings and Activities develop students in skills of 'L A C E S' that represent 'L' for Language, 'A' for Aptitude, 'C' for Core, 'E' for Experiential and 'S' for Soft Skills. TYL Skill development activities are through all the years of student's coursework. TYL activities are designed, planned and being executed for all semesters of all batches and for all degrees BE, MCA, MBA and M.Tech in CMRIT.
- All TYL Topics follow certain naming convention. For example, in 'P2-Python', first character 'P' represents Programming, '2' represents Level of the course and the remaining characters gives details of the topic. All TYL topics are categorized into:- Lx for Language skills, Ax for Aptitude skills, Cx for Core domain skills, Px for Programming skills, Sx for Soft skills, Tx for Tools skills and Bx for Business Skills. Lx, Ax, Cx, Px and Sx are applicable to BE, MCA and M.Tech courses, whereas Bx and Tx are applicable to MBA course.

- All TYL Skills are developed in students from first year to final year in phases. For example, TYL A1 Aptitude is covered in first year BE, where TYL A2 & A3 Aptitude trainings are planned in 5<sup>th</sup> & 6<sup>th</sup> semesters of BE. Similarly, Px topics are covered with TYL P1-Basics in 1<sup>st</sup> year BE, TYL P2-Python and P2-Advance in BE and TYL P3, P4, P5 trainings are planned in 3<sup>rd</sup> year. TYL program is designed such a way that skill levels go up as students progress in their coursework.
- Every TYL Skill Level development ends with an assessment test. Students need to clear the assessment to progress to next level skill. Students need to pass assessment tests to get eligibility for placements. The TYL process supports both quick and slow learners with remedial classes, mentorship and career counselling.
- TYL program is planned for all courses and for all semesters. All students should take full use of these TYL programs to earn their 'dream job' with 'high salary package'.

## PRE\_PLACEMENT TALKS

- Xcelerator – Pre placement Talk by the HR person Mrs.Jayashree Aldikar.

- SACHA Engineering – Pre placement Talk by HR persons Ms.Vijaya Kumari & Ms.Flavia Ross
- Silverpeak Global - Engineering – Pre placement Talk by the VP HR person Mr.Sanju Lokesh
- Indian Navy - Career Awareness Talk by the Lieutenant commander Sardar Manikant
- Sprinklr – Pre placement Talk by HR persons & Technical Team members
- Nilenso – Pre placement Talk by HR person and the Engineering Team of the company & more....



**Companies visited for campus placement between Dec'19 to Feb'20 –**



## CMR SCHOLARSHIP

Students who have received CMR-leadership for their excellence in leadership skills and CMR-Sports scholarship for outstanding achievement in sports.

CMR Leadership Award		
Sl.No.	Name of the student	Department
1	Deepankhar P	B.E.,(Mechanical Engineering), VII Sem
2	Sophia Maria Augustine	B.E., (Computer Science Engineering), VII Sem
3	Panchal Viral Ashok	B.E., (Computer Science Engineering), VII Sem
4	Karthik Hosur	B.E., (Computer Science Engineering), VII Sem
5	Souptik Mukherjee	B.E., (Electrical and Electronics Engineering), V Sem
6	Nazim Basha	MCA, V Sem



CMR Sports Scholarship		
Sl.No.	Name of the student	Department
1	L.Priyanka Reddy	B.E. (Electronics and Communication Engineering) - I Semester
2	Shalini Pandey	B.E. (Information Science Engineering) - III Semester
3	Mayur Shiva Kumar	B.E. (Computer Science Engineering) - VII Semester
4	B.R.Aiswarya	B.E. (Computer Science Engineering) - VII Semester
5	Rekha.B	B.E. (Computer Science Engineering) - III Semester



## CMR SCHOLARSHIP

Following students of CMRIT were awarded with CMR– Scholarships for their academic excellence

Sl.No.	Name of the student	Department
1	Priscilla C	B.E. (CSE)- III semester
2	Shalini N	B.E. (CSE)- III semester
3	Indraja V	B.E. (CSE)- III semester
4	Tasmia Firdose	B.E. (CSE)- III semester
5	Ashika Pemmaiah B	B.E. (CSE) - V semester
6	Chethan B S	B.E. (CSE) - V semester
7	Suhas C V	B.E. (CSE) - V semester
8	Vagish V Bhat	B.E. (CSE) -VII semester
9	Sonu S Babu	B.E. (CSE)-VII semester
10	Ramya T	B.E. (CSE)-V semester
11	Preeti Khaitan	B.E. (CSE)-III semester
12	Manas Dutta	B.E. (CSE)-III semester
13	Vasundara N V	B.E. (TCE) -VII Semester
14	Sanju G	B.E. (ECE) - III Semester
15	Sai Charitha M P	B.E. (ECE) - III Semester
16	Ealayaraja S	B.E. (ECE) - III Semester
17	Aishwarya U N	B.E. (ECE) - V Semester
18	Megana G	B.E. (ECE) - V Semester
19	Bindu R	B.E. (ECE) - V Semester
20	Niharika Kodiganti	B.E. (ECE) - VII Semester
21	Rajnish Kumar shah	B.E. (ECE) - VII Semester
22	Divya S	B.E. (ECE) - III Semester
23	Sri Sagar K P	B.E. (ECE) - III Semester
24	Balachandra G Bhat	B.E. (ECE) - V Semester
25	Mythri Joshi	B.E. (ECE) - VII Semester
26	Chandini N	B.E. (ECE) - III Semester
27	Sahena S R	B.E. (ECE) - III Semester

Sl.No.	Name of the student	Department
28	Harshitha M	B.E. (ISE)-III Semester
29	Nikhil Anand	B.E. (ISE)-III Semester
30	Arpitha S	B.E. (ISE)-III Semester
31	Aditya Kumar	B.E. (ISE)-VII Semester
32	Mylavarapu Sai Ganesh	B.E. (ISE)-III Semester
33	Nishika Gupta	B.E. (ISE)-III Semester
34	Valerie Anita Joseph	B.E. (Civil Engineering)-VII Semester
35	Gowtham R	B.E. (Civil Engineering)-VII Semester
36	Poornima G Hiremath	B.E. (Civil Engineering)-VII Semester
37	A Kumarpal	B.E. (Civil Engineering)-VII Semester
38	Darshan Ramesh Raichur	B.E. (Civil Engineering)-VII Semester
39	Vidhyashree V	B.E. (Mechanical Engineering) - III Semester
40	Nethravathi R	B.E. (Mechanical Engineering) - III Semester
41	Praveen D	B.E. (Mechanical Engineering) -V Semester
42	Sanjana M	B.E. (Mechanical Engineering) -V Semester
43	Prajwal M C	B.E. (Mechanical Engineering) -V Semester
44	Ajay S	B.E. (Mechanical Engineering) - VII Semester
45	Vanshika Ghai	B.E. (Mechanical Engineering) - V Semester
46	Prajwal Babanrao Patil	B.E. (Mechanical Engineering) - V Semester
47	SurekhaV S	B.E. (EEE) - III Semester
48	Vignesh S	B.E. (EEE) - III Semester
49	Deepika J	B.E. (EEE) - V Semester
50	Sumanth Rithu K N	B.E. (EEE) - V Semester
51	Gayathri S	B.E. (EEE) - III Semester
52	Rahul Kumar Dubey	MCA - III Semester
53	Sarawathi M A	MCA - III Semester
54	Satish Kumar Sahu	MCA - III Semester
55	Sowmya V	MCA - III Semester
56	Lavanya T R	MCA - V Semester
57	Poorna Dinesh Acharya	MCA - V Semester
58	Shubham saha	MCA - III Semester
59	Praveen Kumar V	MCA - V Semester

# STUDENT ACHIEVEMENTS



## PRIZES, AWARDS AND PUBLICATIONS

- International Youth Math Challenge (IYMC) following students won awards :-

**Ritik Singh** (1CR18IS119) – Silver

**Kevin Mahesh Kuriakose** - (1CR19IS065) – Silver

**Abirami Sreerenganathan** (1CR19IS005) – Silver

**Alok Kumar** (1CR18EC013) – Bronze

**K C Varun** (1CR19CS073) – Bronze

- Mohammed Rifas S (1CR17CS075), Shubham Goyal (1CR17CS145), Vaibhav Padmanabha (1CR17CS170)** of CSE department won 1<sup>st</sup> prize in HULT PRIZE On Campus competition at RV College of Engineering.



- Anindita Ghosh (1CR15EC020), Chaya N (1CR15EC048) and Prof. Amit Jain** of ECE Departments published paper titled “A Ultra Low Power Low noise Operational Transconductance Amplifier for Biomedical Front-end Applications”

in 5th International Conference on Inventive Computation Technologies [ICICT 2020].

- Mohammed Rifas S (1CR17CS075)** of CSE department completed course with Honours on course era : API Development on Google Cloud's Apigee API Platform.

- Susanna Suchita S (1CR18CS166), Shalini.N (1CR18CS148)** of CSE department Won first prize for IOT Quiz program conducted by Mind spark club.

- Mohammed Waseem (1CR18CS102)** of CSE department Won third prize in the event ACE club (c programming).

- Rishikesh Patidar (1CR18CS136)** of CSE department Won First Prize in C QUIZ (ACE Club Event).

- Souptik Mukherjee (1CR17EE068)** of EEE department won first prize in Instrumental Solo at Mount Caramel College, Bengaluru.

- Souptik Mukherjee (1CR17EE068)** of EEE department won first prize in 60 seconds to fame at Jain Group of Institutions.

- Manisha N Phadke (1CR16EE042)** of EEE

Department has secured 100/100 in Carbon Capture and Storage (15EE743) in the

recently concluded VTU examination.



# UNIVERSITY RANK HOLDERS





**CONGRATULATIONS!**  
**GOLD MEDAL**  
Ms. AYESHA BANU  
ICR15TE012  
(Telecommunication Engineering)




Awarded by  
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Technological  
University Belgavi

[www.cmrit.ac.in](http://www.cmrit.ac.in)



**CONGRATULATIONS!**  
**3RD RANK**  
Ms. MAIMUNISHA N K  
ICR16MCA16  
(Master of Computer Applications)



Awarded by  
Visvesvaraya  
Technological  
University Belgavi

[www.cmrit.ac.in](http://www.cmrit.ac.in)



**CONGRATULATIONS!**  
**3RD RANK**  
Mr. DHRUV VATSA MISHRA  
ICR15IS025  
(Information Science & Engineering)



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University Belgavi

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**CONGRATULATIONS!**  
**3RD RANK**  
Ms. MAMATHA N  
ICR17LVS04  
(VLSI Design & Embedded Systems)



Awarded by  
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University Belgavi

[www.cmrit.ac.in](http://www.cmrit.ac.in)



**CONGRATULATIONS!**  
**9TH RANK**  
Ms. RASHMISHREE RAUL  
ICR15IS029  
(Information Science & Engineering)



Awarded by  
Visvesvaraya  
Technological  
University Belgavi

[www.cmrit.ac.in](http://www.cmrit.ac.in)



**CONGRATULATIONS!**  
**9TH RANK**  
Mr. CHANDRA SHEKAR N  
ICR17LVS02  
(VLSI Design & Embedded Systems)



Awarded by  
Visvesvaraya  
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University Belgavi

[www.cmrit.ac.in](http://www.cmrit.ac.in)



**CONGRATULATIONS!**  
**9TH RANK**  
Mr. THEJAS MANJUNATH  
ICR15EC017  
(Electronics & Communication Engineering)



Awarded by  
Visvesvaraya  
Technological  
University Belgavi

[www.cmrit.ac.in](http://www.cmrit.ac.in)

## SPORTS ACHIEVEMENTS

- L.Priyanka Reddy of ECE Department Participated in WAKO INDIA OPEN INTERNATIONAL KICKBOXING Tournament held at Talkatora Indoor Stadium New Delhi from 9th to 13th February 2020 and Secured TWO GOLD MEDAL in Kick Light and Point Fight event in 55Weight Category.



- Football and Kho Kho Men Team Participated in State level sports fest MOMENTUM-2020 conducted by R.V.College of Engineering, Bangalore from 21st to 24th February 2020, and Secured Second Place( Runner Up).



- CMRIT Football team took part in Neymar's jr 5 a Side Tournament held at RV college Bangalore on 18/01/2020 and secured Runners Up Position.



- Priyanka Reddy of first year participated in 21<sup>st</sup> All India Sports extravaganza VIE 2020 karate Championship held at Jain University Bangalore on the 3<sup>rd</sup> Feb 2020 and Secured Silver Medal.



# FACULTY ACHIEVEMENTS



## RESEARCH PUBLICATIONS

- **Prof. Sanjay Jain and Prof. Swathi Y** of CSE and ISE Departments published paper titled “Best practices in Higher Educational Institutions: Subjective Evaluation of POs and Blooms Taxonomy” in Fourth International Conference on Information And Communication Technology For Competitive Strategies (ICTCS-2019), ACM, CRC Press, Taylor and Francis Group.
- **Prof. Shanthi M B** of CSE Department published research paper titled “Security Enabled Smart Home Using IoT” in Springer Book Series - Lecture Notes in Networks and systems.
- **Prof. Suganya S and Prof. Venkateswaran Krishnasamy** of ECE Department published research paper titled “Development of a Novel Ubiquitous Client monitoring and Pervasive Vehicle Tracking System using enhanced 3G Technology for Transportation Applications” in International Journal of Recent Technology and Engineering (IJRTE).
- **Prof. Sharmila K.P** of ECE Department published research paper titled “Vehicular Crash Signaling System” in International Journal of Recent Technology and Engineering (IJRTE).
- **Prof. Amit Jain** of ECE Department published research paper titled “Analysis of Split Gate Dielectric and Charge Modulated SON FET as Biosensor” in ICCDN-2019-Sikkim Manipal Institute of Technology, Sikkim.
- **Prof. Ramesh P** of EEE Department published research paper titled “Implementation of Stepped Frequency Modulation Pulse Compression on NI Suite” in International Journal of Engineering and Advanced Technology (IJEAT).
- **Prof. Chitra K** of EEE Department published research paper titled “Design and Development of Hybrid Two-Wheeler” in International Journal Of Scientific & Technology Research.
- **Prof. Meenakshi Krishnan** of BS-Mathematics Department published research paper titled “Semigraphs and Goldbach Conjecture.” in IJRTE.
- **Prof. Nidhi Vaishnav** of BS-Mathematics Department presented research paper titled “Mathematical modeling of depression in young women” in Indian Society Of Theoretical and Applied Mechanics (ISTAM).

- **Prof. S. Shankar Narayan** of **BS-Mathematics** Department presented research paper titled “Study of behavioural change in blood from non-newtonian to newtonian ” in Indian Society Of Theoretical and Applied Mechanics (ISTAM).
- **Prof. Prashant S Hatti** of **Mechanical** Department published research paper titled “Structural simulation and optimization of diesel engine piston material using Ansys” in International Journal of Innovative Technology and Exploring Engineering (IJITEE).
- **Prof. Arunkumar T** of **Mechanical** Department published research paper titled “Abrasive Wear Behaviour of Plasma Sprayed Al<sub>2</sub>O<sub>3</sub> / TiO<sub>2</sub> Coatings” in International Journal of Innovative Technology and Exploring Engineering (IJITEE).
- **Prof. Arunkumar T** of **Mechanical** Department published research paper titled “Effect of amaretardant Additive with polyurea for explosive environment” in Materials Research Innovations, Taylor & Francis.
- **Prof. Puneeth Kumar N** of **Mechanical** Department published research paper titled “Fixture For Slot Milling Keyways On An Industrial Gear Shaft” in International Journal of Mechanical and Production Engineering Research and Development (IJMPERD).
- **Prof. Puneeth Kumar N** of **Mechanical** Department published research paper titled “Effect Of Variation Of Sulphur And Phosphorous On The Machining Characteristics Of C45 Carbon Steel” in International Journal of Mechanical and Production Engineering Research and Development (IJMPERD).
- **Prof. Prem Kumar Ramesh** of **CSE** Departments published paper titled “Ontology Based Power Profiling for Internet of Things Deployed with Software Defined Data Center” in Journal of Computational and Theoretical Nanoscience.
- **Prof. Prem Kumar Ramesh** of **CSE** Departments published paper titled “Towards a Software Defined Data Center for IoT” in International Journal of Management, Technology and Engineering.
- **Prof. Paras Nath Singh** of **CSE** Departments published paper titled “Object recognition & big image data processing using machine learning” in 107th Indian Science Congress.
- **Prof. Rijo Jackson Tom** of **CSE** Departments published paper titled “Aggregator based RPL for an IoT-fog based power distribution system with 6LoWPAN” in China Communications, IEEE.
- **Prof. Naveen Kumar GN** and **Prof.Sridhar N** of **ECE** Departments published paper titled “Improvement of Power Quality in an Adaptive Boost PFC Converter with Generation of PWM Control Signal by Cascading Power Factor and Chaos Controller Circuits” in International Journal of Engineering and Advanced Technology (IJEAT).
- **Prof.Geetha** of **ISE** Department published paper titled “Rapid retrieval of secured data from the sensor cloud using a relative record index and energy management of sensors” in Journal of Computational and Theoretical Nanoscience in International Journal of Intelligent Enterprise.

- **Prof. Geetha** of **ISE** Department published paper titled “Patient Monitoring System with Miniaturization of Sensors” in International Journal of Engineering and Advanced Technology (IJEAT).
- **Prof. Chinnaiyan R** of **ISE** Department published paper titled “Reliable Admin Framework of Drones and IOT Sensors in Agriculture Farmstead using Block chain & Smart Contracts” in 2nd International Conference on Big Data Engineering and Technology.
- **Prof. Swathi Y** of **ISE** Department published paper titled “EAPSO\_GSA: Energy Aware Routing using Hybrid PSO and Gravitational Search Algorithm in Wireless Sensor Networks” in International Journal of Engineering and Advanced Technology (IJEAT).
- **Prof. Helen Josephine** of **MCA** Department published paper titled “Role of Artificial and Neural Network in Opinion Mining” in 10th National Conference on Machine Learning and Smart Technology.
- **Prof. Rijo Jackson Tom** of **CSE** Department published paper titled “Agent negotiation in an IoT-Fog based power distribution system for demand reduction” in Sustainable Energy Technologies and Assessments – Elsevier.
- **Prof. Abhishek Javali** of **ECE** Department published paper titled “An Overview of High Speed Streaming in 5G” in IEEE-ICICT 2020.
- **Prof. Harsha B K** of **ECE** Department published paper titled “A Survey on Skin detection in Images” in 5th International Conference on Inventive Computation Technologies (ICICT-2020).
- **Prof. Pappa M** of **ECE** Department published paper titled “Performance of fading channels in Non Orthogonal Multiple Access” in Second International Conference on Advances in Electrical and Computer Technologies 2020" (ICAECT 2020).
- **Prof. Chitra K** of **EEE** Department published paper titled “Modeling and Simulation of Trans Z-Source Inverter with Maximum Constant Boost PWM Control for Solar PV System” in Intelligent Manufacturing and Energy Sustainability, Smart Innovation, Systems and Technologies – Springer.
- **Prof. Ramesh P** of **EEE** Department published paper titled “Performance Analysis of ST-Type Module for Nearest Level Control Scheme Based Asymmetric 17-Level Multilevel Inverter Fed Single -Phase Induction Motor” in International Conference on Intelligent Computing and Communication – Springer.
- **Prof. Prashant S Hatti** of **Mechanical** Department published paper titled “Microstructure And Hardness Behavior Study of Carbon Nanotube In Aluminium Nanocomposites” in Springer Publication.
- **Prof. Rajendra Prasad Reddy** of **Mechanical** Department published paper titled “Performance, combustion and emission characteristics of a diesel engine fuelled with Schizochytrium micro-algae biodiesel and its blends” in International Journal of Ambient Energy.
- **Prof. Meenakshi Krishnan** of **BS-Mathematics** Department published paper titled “Graph theory approach to number theory theorems” in JARDCS Scopus.



## PATENT APPLIED

- **Prof. Karthik N M** of Civil Department submitted Patent on “Tablet strip” to patent office.
- **Prof. Agalya V** of EEE Department submitted Patent on “Compatible Solar Agricultural & Horticultural Sprayer” to IP India.
- **Prof. M. Farida Begam** and **Prof. Shahina Parveen M** of ISE Department submitted Patent on “Disease Analysis by Machine learning over data from Health Community” to Patent Office India Pvt Ltd.
- **Prof. Geetha S** of ISE Department submitted Patent on “Automated Security Threat Analysis And Executing Optimal Response For Wireless Sensor Networks” to KLU.

## BOOK PUBLICATION

- **Prof. Agalya V** of EEE Department published a book titled “Embedded system” in Charulatha Publications.
- **Prof. Abhishek Javali** of ECE Department published a book chapter on “NB-IoT for agriculture” in IGI-Global Book Chapter.

## FACULTY AWARDS AND RECOGNITIONS

- **Prof. K S Shashikala** from CSE Department Secured Gold Medal for the course "Programming in Java" offered by NPTEL and conducted by IIT Kharagpur.



- **Prof. Savitha N J** from CSE Department Secured silver medal in NPTEL for the course "The Joy of computing using Python.

- **Prof. Pushpa Mohan** from CSE Department served as BOE at Reva University.
- **Prof. Vidya Ubalanka** from ISE Department Received Elite certification with Silver Medal for the course “Python for Data Science” offered by NPTEL, AICTE approved FDP course conducted

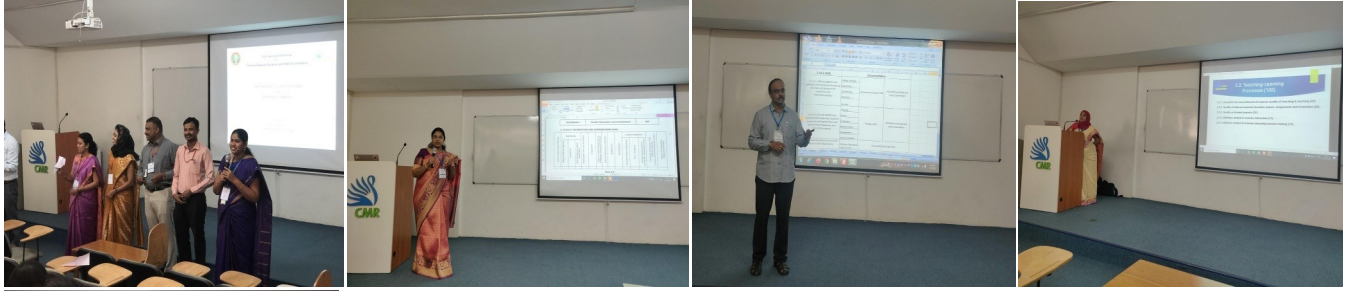


by IIT Madras.

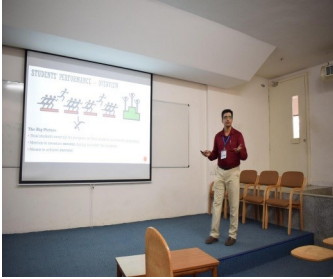
- **Prof. Abdul Rasheed** from MCA Department served as BOS member at VTU To frame the syllabus for the forthcoming academic year.
- **Prof. Meenakshi Krishnan** from **BS-Mathematics** Department served as a resource person in tional Seminar on Recent Advancements in Mathematics at Sri Ramanas College of Arts and Science .
- **Prof. Paras Nath Singh** of CSE Department is now the President of the ICT(including Computer Science) section of the 108th Indian Science Congress 2020-21 by a unanimous election. This was declared on 7th January 2020 at the Annual General Body Meeting of the 107th Indian Science Congress hosted by UAS(GKVK) in Bangalore.
- **Prof. Navaneetha M** of CSE department qualified for NET exam.



- **Prof. Swathi Y, Prof. Prem Kumar Ramesh , Prof. Farida Begam Mohamed Hussain, Prof. Paras Nath Singh , Prof. Manoj Challa, Prof. Jhansi Rani** of CSE and ISE department served as a resource person at TEQIP OBE & NBA Workshop organized from 6<sup>th</sup> Jan to 10<sup>th</sup> Jan 2020.



- **Prof. Shanthi M B and Dr.Pushpa Mohan** of CSE department served as a resource person at FSMK, Academic Chapter on 26<sup>th</sup> Jan 2020.



- **Prof. Paras Nath Singh** of CSE Department served as a judge for best research paper at 107<sup>th</sup> Indian Science Congress event.



- **Prof. Paras Nath Singh** of CSE Department served as a resource person for “on programming in C++ & Python”at GOVT.Science College.

- **Prof. Agalya V** of EEE Department served as a resource person for “Design Thinking and Filing Procedure for Industrial Design”at Mahendra Institute of Technology.



- **Prof. Namita P Konnur** of MBA Department served as a resource person on “Business Statistics Analytics”at Cambridge Institute of Technology.

- **Prof. Chinnaiyan R** of ISE Department served as a Resource Person at 5 Days STTP on Software Engineering, Anna University.

- **Prof. Chinnaiyan R** of ISE Department served as a Resource Person at National Level Seminar on Machine Learning, Kongu College of Arts.

- **Prof. Swathi Y** of ISE Department served as a Resource Person at One day workshop on Revised NAAC Accreditation Process, Dr.TTIT,Kolar.



- **Prof. Sudhakar K N** of ISE Department served as a Resource Person at VTU Tequip 1.3 sponsored 2 day workshop on "Training on Software and Equipments for Lab Instructors", AMC College of Engineering, Bengaluru.



- **Prof. Paras Nath Singh** of CSE Department received Most Fabulous Professors award by world HRD congress.

- **Prof. Rijo Jackson Tom, Mamtha M V (ICR17CS070), R Sruthi Parvatha (ICR17CS102), Ramya T (ICR17CS107)** of CSE Department participated in the 5th Mitsubishi Electric Cup 2020 on 14th and 15th February 2020. There were one among the final 35 teams in India.
- **Prof. Rijo Jackson Tom** of CSE Department served as a Journal Reviewer for IEEE Access.
- **Prof. Rijo Jackson Tom** and **Shyam P Joy** of CSE Department served as a Jury for Internal Hackathon for Smart India Hackathon.
- **Prof. Paras Nath Singh** of CSE Department served as a resource person at DBATU, Lonere, Maharashtra.
- **Prof. Manoj Challa** of CSE Department served as a Resource Person at One day workshop on Revised NAAC Accreditation Process, Dr.TTIT, Kolar.
- **Prof. Rijo Jackson Tom** of CSE Department served as a Journal Reviewer for IGI Global.
- **Prof. Suganya S** of ECE Department served as a Advisory committee for ICCCC 2020 Conference.



- **Prof. Jhansi Rani** of CSE Department served as a expert at First Annual International Conference on Data Science, Machine Learning and Block chain Technology, Mysore, Karnataka, India (AICDMB-2020).

• **Prof. Kavitha P** of CSE Department served as a Resource Person for Machine learning using python workshop.



- **Prof. Vanaja Shivakumar** of ECE Department served as a Resource Person for a seminar on "Design Patent for Beginners".



- **Prof. Neha Agrawal** of MCA department won First prize on Essay Competition organized by Kannada Sanskruti club.
- **Prof. Agalya V** of EEE department served as Innovation Ambassador at AICTE- MHRD-Institute Innovation Council.
- **Prof. Agalya V** of EEE department served as Innovation Ambassador at ACS College of Engineering.
- **Prof. Meenakshi Krishnan** of BS-Mathematics served as a resource person at NSETM'2020 on 27<sup>th</sup> Feb 2020.

## FACULTY CONSULTANCY

- **Prof. Chinnaiyan R** of ISE Department received a consultancy grant amount of Rs. 50,000 for the title "One Day Boot Camp for Lab Instructors On Environmental Issues and Safety Measures in Laboratories".

- **Prof. Ravi Kant Talluri** of Civil Department received a consultancy grant amount of Rs.1000/- for Cube testing by S J Consultants.

## Ph.D AWARDEES

- **Prof. Anand R** of ISE department has been awarded with Doctor of Philosophy (Ph.D) in Computer Science and Engineering( MANETS) from VTU.



- **Prof. Sudhakar K N** of ISE department has been awarded with Doctor of Philosophy (Ph.D) in Computer Science and Engineering( WSN) from VTU.

- **Prof. Gopi Sampangi Ramaiah** of Mechanical Department has been awarded with Doctor of Philosophy (Ph.D) in Quality Management from Dr.MGR Educational & Research Institute.



- **Prof. Shanthi M B** of CSE department has been awarded with Doctor of Philosophy (Ph.D) in Computer Science and Engineering (Underwater Wireless Sensor Networks) from VTU.

- **Prof.Viji K** of EEE department has been awarded with Doctor of Philosophy(Ph.D) in Power Electronics and Advanced Control System from VTU



- **Prof. Geetha S** of ISE department has been awarded with Doctor of Philosophy (Ph.D) in Computer Science and Engineering for her work on “ Design and implementation of void free routing in wireless sensor networks” from Kalasalingam University.

# FACULTY AWARDS 2020

## “ A RECOGNITION OF EXCELLENCE”



### Design Patent Filing



Sl. No	Name	Dept.
1	Dr. Shivanna D M	MECH
2	Dr. Vanja SivaKumar	ECE
3	Dr. V. Agalya	EEE
4	Dr. Rijo Jackson	CSE
5	Prof. Karthik N M	CIVIL
6	Dr. Vakula Rani	MCA
7	Dr. Piyali Roy Choudhary	MBA
8	Dr. Devanjan Battacharya	ISE
9	Prof. Mahesh Kumar Jha	TCE
10	Dr. Phani Kumar Pullela	BS
11	Dr. Rajesh Gopal	BS
12	Dr. Subhi Baishya	BS

### Grants and Funds



Sl. No	Name	Dept.
1	Dr. Bijiyani	MECH
2	Dr. Chaitanya Lakshmi	CHEM

### CO-PO computation test toppers



Sl. No	Name	Dept.
1	R Sudarshana	PHY
2	Dr. Asha M Nair	CIVIL
3	Kartheek G C R	CSE
4	Joseph Sajan	MECH
5	Preethi A	ECE
6	Sumit Mohanty	EEE
7	Shilpa Mangesh Pande	ISE
8	Gomathi T	MCA
9	Dr. D Malmarugan	MBA
10	Dr. Priti Gupta	CHEM
11	P Rajendra	MATH

### Other Significant Contributions



Sl. No	Name	Dept.
1	Dr. P N Singh	CSE
2	Prof. Dhanya Viswanath	ISE
3	Prof. Santosh Kathari	MBA
4	Prof. Savitha N J	CSE
5	Prof. Varsha P	MCA

### Doctoral Degree



Sl. No	Name	Dept.
1	Dr. Sudhakar R	ISE
2	Dr. Anand R	ISE
3	Dr. Shanthi M B	CSE
4	Dr. Naveen	ECE
5	Dr. Rajendra Prasad Reddy	MECH
6	Dr. Sagar B	MECH
7	Dr. Soundarya	CIVIL
8	Dr. Rijo Jackson	CSE
9	Dr. Sunil Kumar	CSE
10	Dr. Geetha S	ISE
11	Dr. Gopi S	MECH
12	Dr. Balu Patil	MECH
13	Dr. Ratna Rahul Tapakula	EEE
14	Dr. Tiakaba Jamir	BS

### Organizing Skill Training & Test



Sl. No	Name	Dept.
1	Dr. Gomathi	MCA
2	Dr. Farida	ISE
3	Dr. Jhansi	CSE
4	Prof. Manoj Challa	CSE

### Marasandra village project



Sl. No	Name	Dept.
1	Prof. Kashif	EEE
2	Prof. Vinay M N	MECH
3	Prof. Shivraj B	CSE
4	Prof. Cyril	MECH
5	Prof. Vinay B K	ECE
6	Prof. Narendra	CIVIL
7	Prof. Manjima	CSE
8	Prof. Raveesh Hegde	TCE

### Student feedback & result > 90%



Sl. No	Name	Dept.
1	Prof. Girish A	MATHS
2	Dr. Asha Nair	CIVIL
3	Prof. Maharudresh	MECH
4	Prof. Chetan Kumar G	MECH
5	Prof. Sandeep	MBA
6	Prof. Antony Lilly Grace	PHY
7	Prof. Thulasi L	MATHS
8	Prof. Shwetha Gaur	MATHS

# FUTURE ACTIVITIES PLANNED



Activities planned for the next quarter

S. No	Date	Activity	Department / Cell
1	4th March 2020	Guest Lecture on “Gamut of nanotechnology and physics based materials and devices” by Dr. Harish Barshilia, Chief Scientist, NAL, Bangalore	BS - Physics
2	05th March 2020	1-Day Workshop on Digital Marketing	MBA
3	6th March 2020	Cultura - 2020	
4	7th March 2020	Alumni Meet	SC&A Cell
5	19th March 2020	IDEA SCI-TECHATHON 2020	
6	19th March 2020	One to one counselling for becoming entrepreneur and support available at CMRIT I&E Cell, SC/ST Cell @ Canteen ground floor	
7	21st March 2020	“Future Man” Guest Lecture by Dr. Satya Senior Scientist, ISRO	BS - Chemistry
8	26th March 2020	Quiz on Differential Equations	BS - Mathematics
9	1st April 2020	Neural Networks Workshop	CSE
10	2nd April 2020	E-Yantra Lab workshop	e-Yantra
11	3rd April 2020	Industrial Visit to Bellary Thermal Power Station & Supa Dam, Dandeli	EEE
12	8th April 2020	Expert Lecture by Mrs. Praveena Das Jannifer, Scientist	Civil
13	13th April 2020	Industrial Visit to Flap Jack ITPL	MCA
14	23rd April 2020	Best Out of Waste	NSS - CMRIT
15	25th April 2020	TYL Hackathon on C++	
16	25th April 2020	TEDxCMRIT	
17	29th April 2020	TYL Hackathon on JAVA	
18	29th April 2020	PU COLLEGE FACULTY SKILL DEVELOPMENT PROGRAM	
19	30th April 2020	Display of Mini Projects by II Sem BE Students	AE Cell
20	30th April 2020	Test Your Java Skills	TCE
21	6th May 2020	Industrial visit to Unibic Foods	Mech
22	6th May 2020	Display of Mini Projects by 4th and 6th Sem students of CSE, ISE and ECE	AE Cell
23	7th May 2020	Display of Mini Projects by 4th and 6th Sem students of TCE, EEE, CIV and MECH	AE Cell
24	8th May 2020	Display of Mini Projects by MCA, MBA and 2nd Sem M.Tech students	AE Cell
25	8th & 9th May 2020	Social Hackathon	EE&C Cell
26	9th May 2020	Parents meet with principal	
27	9th May 2020	Technical Talk on Electronics and Communication in Software Development by Khalandar Pasha	ECE
	14th May 2020	TYL Hackathon on Python	
28	15th May 2020	National Conference on Big Data, Internet of Things, Cloud and Security (NCBICS-2020)	ISE
29	15th May 2020	Industry Campus Connect Day	T&P Cell
30	16th May 2020	TYL Hackathon on Full Stack Development / ML using Python / Big Data Analytics / Cloud Services	
31	18th May 2020	Placements Day	T&P Cell

# STUDENT COUNCIL



## STUDENT COUNCIL 2019 - 20



**KUSHAL M  
PRESIDENT**



**SHRIKESH SURESH  
SECRETARY**



**MECHNA MENON  
TREASURER**



**CHANDRAMA BHOWMIKA  
SENIOR TECHNICAL  
SECRETARY**



**V ABHISHEK  
SENIOR CULTURAL  
SECRETARY**



**SHWETHA SATISH  
PUBLIC RELATIONS  
SECRETARY**



**BURHANUDDIN  
KHOMOSI  
BOYS HOSTEL SECRETARIES**



**PRATHAM T**



**AISHWARYA B S  
GIRLS HOSTEL SECRETARIES**



**SHRAVANI**



**K KAVYA**



**NISHANTH V R**



**SNEHA M.MANI**

**CULTURAL SECRETARIES**



**PRAMITA SOANS**



**SATISH KUMAR**



**KRISHNA**

**TECHNICAL SECRETARIES**



**HARSHITA**



**CHAMAN R**

**SPORTS SECRETARIES**



**NISARGA G**



**ABHINAB MISRA**

**LITERARY SECRETARIES**

# ALUMNI ASSOCIATION



## Alumni Association



Connect to CMRIT Alumni network

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



- Hearty congratulations to our alumnus Mr. Vinu Joseph who has been selected as a recipient of the 2020-2022, Prestigious **NVIDIA Graduate Fellowship Award**. He is one of 5 students selected this year. The NVIDIA Graduate Fellowship Program provides funding of up to \$50,000 for each PhD student.

• Department of **Mechanical Engineering** organized Alumni talk on “How to become a successful entrepreneur” by Mr. Anand Raja, Managing partner, Mew Thetis on 20<sup>th</sup> Feb 2020.



- Department of **BS-Physics** organized Alumni Interaction and discussion on Higher studies opportunities for BE students abroad by J. Vinu, Research Scholar at University of Utah, USA on 20<sup>th</sup> Feb 2020.



# TECHNICAL/ NON-TECHNICAL ARTICLES

## THE ELECTRIC VEHICLE INDUSTRY IN INDIA

With ‘climate emergency’ being the Oxford Word of the Year 2019 and with the boom of the lithium-ion battery industry, the global trend toward electric vehicles (EVs) is growing among both consumers and business owners. The prime reasons for this shift are the anticipated environmental benefits and the potential long-term economic advantage that EVs offer. But are EVs really the lucrative choice for the average commuter?

The average cost of an EV in India is Rs 11 lakh for a range of 110km while the traditional fuel car averages at Rs 5 lakh. To bridge this gap, the Government of India started the Faster Adoption and Manufacturing of Electric vehicles (FAME) scheme that offers incentives to the electric and hybrid vehicles ranging from Rs.1,800 to Rs.29,000 for two-wheelers and Rs.1.38 Lac for cars. Yet, the percentage of EVs sold in FY2019 was approximately 31% of all units sold in India.

The heart of the electric vehicle is the combination of the electric motor, the motor's controller and the batteries. Currently, Indian auto manufacturers have to import lithium-ion batteries from countries like China, Taiwan and Korea. With a deficiency of charging infrastructure and exorbitant prices of battery packs (\$275/kWh), EVs may not seem like the most economic option.

Great Wall Motors (GWM) claims to launch its electric car Ora R1 in India this year. Termed ‘the

cheapest electric vehicle globally’, the car is priced at Rs 6.5 lakh with maximum range of 351 km. The car was showcased at Auto Expo 2020 as a four-door compact hatchback equipped with a 9-inch touchscreen infotainment system with connected car technology, tyre pressure monitoring system, reverse parking sensors and camera.

While it may be years before Tesla cars and electric trucks become ubiquitous on Indian roads, the EV revolution is not a prospect of the future, but it is a phenomenon of the present.

**MANISHA N PHADKE(1CR16EE042)**

## MOBILE APP FOR CROWD FUNDING TO AVOID SUICIDE DEATHS OF FARMERS IN INDIA

India is a land of agriculture and farmers are indeed the backbone of our nation. For the progress of our nation, the success and wellbeing of farmers is of utmost importance. In order to ease and reduce the complexities of the issues faced by the farmers, the idea of farmer crowd funding originated. The main aim of crowd funding is to tackle the problem of middlemen and raise the value of farmer’s yield. In order to solve the financial crisis faced by farmers from its root level, Crowd funding was coined for its amazing practical solution to generate and manage the funds for application. This system simplifies the traditional way of lending money for farmers in need with high rate of interest and along with financial support; system ensures high value

for the farmers yield.

Food security is an important aspect for Indian people and we propose to develop a model for crowd funding for farming. Interested people of India contribute a sum with an assurance of receiving the produce. The money is sent to a village help group via a bank and provided interest free financing for farmers and for the total farming activity the bank takes a general insurance (offered by GIC). If we anticipate government for public sector banks to waive off the loans, both the Indian farming and banking system would collapse. By asking the society to be part of the venture and rewarding the hardworking farmer, we are addressing one of the biggest social stigma (being a farmer!). If farmer society succeeds in Farming, they ship the produce as promised. If the farmer fails due to natural reasons like lack of rain, cyclones etc., the General Insurance Corporation (GIC) will reimburse the bank for the loan amount defaulted. All four cycles continue every season. Because the money is given through a bank and given to a farming society and because of built in insurance, the loss of money/fraud in crowd funding is minimized.

**SUCHITHRA I M (1CR16CS166)**  
**SONU S BABU (1CR16CS163)**  
**AISHWARYA M (1CR16CS077)**  
**SURAJ R BELLAD (1CR16CS168)**

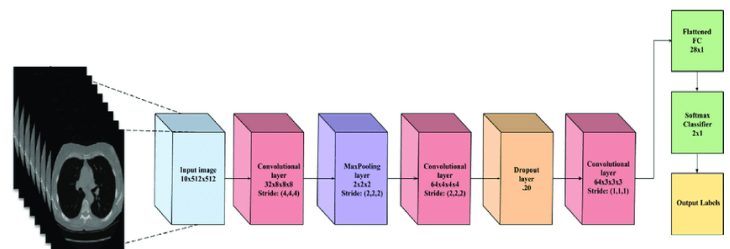
## IMAGE CLASSIFICATION USING CNN ALGORITHM

Image Classification is a methodology of identifying to which class (eg: cat, dog, human etc.) does a picture (given as input) belong to. It is the process to label the images based on their predefined categories, based on supervised deep learning.

One of the trending research areas is Machine Learning where Machine Learn itself based on a huge training dataset. To classify images the Convolution Neural Network (CNN) is used which is one of the standard machine learning algorithms for image processing. It is used to understand, recognize and remember the features of the images given to it as inputs based on deep learning neural networks. It has a wide range of applications from Facebook's photo tagging to self-driving vehicles, video recognition, recommender systems, Natural Language Processing and medical image analysis.

### Architecture of CNN

A CNN has convolution layers, ReLU layers, Pooling layers and a fully connected layer. The flow chart of the architecture of the CNN looks something like this:



How does a CNN work?

A CNN follows the below steps to perform image classification:

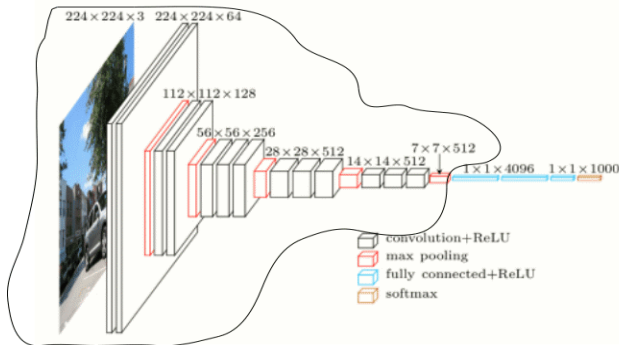
- 1) It takes an input image.
- 2) It applies filters to the input image to create a feature map at the convolution layer.
- 3) To increase non-linearity, it applies ReLU function to the image at the activation layer.
- 4) It applies the pooling layer to each of the feature map.
- 5) It flattens the pooled images into a single long vector.
- 6) This long vector is given as the input to the Fully

Connected artificial neural network.

7) The fully connected layer provides voting for the classes.

8) The process is propagated forward and backward many times.

9) This repeats until we have a well defined neural network of the image with trained weights and feature detector.



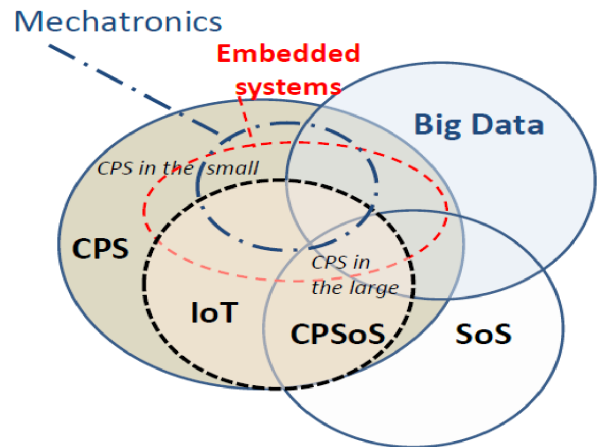
**A D JEEVITHA (ICR17IS001)**

## CYBER PHYSICAL SYSTEM (CPS)

**Definition:** A Cyber-Physical System (CPS) is a system with Embedded hardware and software which:

- Directly records physical data using sensors and affect physical processes using actuators;
- Evaluates and saves recorded data, and actively or reactively interacts both with the physical and digital world;
- Connected with other CPS and in global networks via digital communication facilities (wireless and/or wired, local and/or global);
- Uses globally available data and services;
- Have series of dedicated, multi-modal human-machine interfaces.

**CPS Relation between other concepts:**



From shows that CPS is an integration of all technology and most of the latest technologies are overlapping the CPS.

### Challenges of CPS

The challenges of CPS system are listed below. Each challenge is a source of numerous research topics and innovation;

1. Scientific challenges: Multi-paradigm
  - Multidisciplinary; Socio – Technical Character; Foundation Theories; Multi- domain modeling
2. Technology Challenges ; Complexity
  - Interoperability; Autonomy: Privacy; Dependability; Uncertainty
3. Economic Challenges : Disruption
  - Service v/s product; disruptive dominance
4. Education Challenges : Competence
  - Knowledge Excellence; Balanced education
5. Legal Challenges: Innovation barriers
  - Relatory environment ; certification and harmonization
6. Societal Challenges: Change – Aversion
  - Public awareness and public support

**SUGANYA.S,**

**ASSO. PROF, DEPT OF ECE**

## KICK BOXING

Kickboxing is a sport which has evolved from the sport of karate. Kickboxing is a full contact form of karate. But the history and the roots of kickboxing are tied up to the martial art, Muay Thai. Muay Thai is a sport originated in Thailand. Muay Thai is believed to be a style of combat used by Siamese soldiers during the war, it was termed as Muay Boran back then, it later on gained the name Muay Thai. Muay soon became a traditional sport in Thailand. When soldiers used to go for a combat they received pieces of clothing from their mothers and other family members to indicate their sign of support. But, nowadays the martial artists receive these from their masters.

The modern-day kickboxing involves various equipment that have to be worn during a fight such as, shin pads, gloves, head guard, mouth guard and so on. Each match has a certain number of rounds which are timed. Though kickboxing is not an Olympic sport yet it is ought to be in the 2024 Paris Olympics.

**L.PRIYANKA REDDY**

**TWO GOLD MEDAL in Kick Light and Point Fight event in 55Weight Category.**

## WOMEN IN STEM

Marie Curie, Ada Lovelace, Grace hopper. I am sure most of you wouldn't have recognized the names listed here. These are the women who have significantly contributed to the field of science and are yet unheard of. The man to woman ratio of the

Nobel prize winners signifies how under-represented women are in the field of science

The number of female graduates in these fields has steadily increased but not even half the students end up working in their respective fields. The constant discrimination at work places, lack of proper facilities and encouragement explains the situation. The social bias around the world affects a woman's career choice by a great deal and not enough educational institutions are doing enough to bridge this gap. It is about time we change the numbers and encourage the women to take up roles in STEM. Not only will this create role models for the future generations, but will also increase the number of working minds and pave way for new discoveries.

We should start encouraging and educating girls from a young age. Their inquisitive minds should be steered towards the right direction. Studies show the girls show interest in STEM subjects as early as middle school. We must nurture this interest and support them. Working on long term solutions by the governments and schools will help cope with this huge gender disparity. As a first step, however schools need to break the 'gendered notions of intelligence' and encourage girls not only to take science at secondary and higher secondary level but also to pursue their career in STEM. Hence, we should allow the women to focus on their career without the societal pressure in order to combat the surplus of positions in STEM.

**MS.SHRIYA KARANAM (1CR17EC184 )**

## TESTIMONIALS



**Ms. Ayesha Banu**  
**B.E-Tele Communication**  
**1st rank ( Gold Medal)**

Success was a phenomena in my mind which I wanted to strive for before I came to CMR Institute of Technology. I believe in putting my best effort and securing a gold medal from VTU wasn't something which I had aimed for but something which I was awarded for the hardwork, patience and perseverance which I had put throughout my journey at CMRIT. I'm very thankful to the HOD and faculty of TCE department for putting their best efforts to get the best of me. I shall always remain in gratitude & joy for having studied in this Institute.

It is with great pleasure that I write this testimonial to CMRIT for providing wonderful career opportunities to the students and helping them achieves their dreams. Apart from academics college also creates a wonderful platform for the students to showcase their skills and talents. CMRIT conducts various extracurricular activities that help build confidence in students. I would like to thank CMRIT for supporting my son in fulfilling his dreams. I am glad that his hard work along with the efforts taken by the college paid off. I would like to especially thank the placement cell and the coordinators of CMRIT for making my son realise his potential and to get placed in an esteemed organization to help him achieve meteoric heights.



**Ashok Jain**  
**Senior Employee**  
**Prakash Textiles**



**Jayadeva E P,**  
**Chief of project, HAL**

CMRIT, a NAAC A+ accredited institute, stands out as a Centre of Excellence in Engineering Education in the city of Bangalore where the first College of Engineering in Karnataka was started about a century ago by the great visionary Sir MV. The campus of the Institute boasts of well equipped facilities, labs and workshop fulfilling all the needs of modern engineering curriculum. A dedicated

and highly motivated faculty with their “Anytime with the Students” approach makes for a greater learning experience as shared by the students. The Institute instils in the students an explorative and practical oriented approach which is the hallmark for a successful engineer or a technocrat. Initiatives like Makers Space, Software Workshops, Tie Your Laces (TYL), Student Clubs and Mentoring equip the students to face the competition in their quest for professional excellence. A friendly code of conduct at the Institute encourages students to develop a responsible citizen mindset without violating their sensibilities when they enter its portals from a strict regimented High school/Pre-university set up. As a parent of a student, I can vouch that Mass bunking, flash demonstrations and other anti-student phenomena are a rarity in this Institute. Overall, CMRIT is a great place for all parents who are on the lookout for a wholesome engineering education of high standard for their wards.



**Dr. L. Pratap Reddy,**  
**Professor in ECE and IPR Cell Coordinator,**  
**Former Director R&D Cell,**  
**JNT University Hyderabad**

"Data is the oil of the world today. When we look at the assets, the percentage of tangible assets are diminishing to 16% where as intangible assets contribute to 84% of the world wealth. In such a scenario, role of Engineers is shifted to explore, understand, analyze and handle the relation between information and processing information. The challenge lies in the distribution system, which is unequal. Data

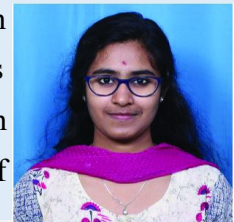
should be acquired to analyze this condition and provide suitable solutions for the world. The concentration of Free Software movement and proponents of Free Software should be shifted to handle these problems of the world. CMRIT as an institution that is

placed geographically at the center of Bangalore, where the students are exposed to various issues of Urban and Rural divide, which gives possibility to explore all sorts of issues in the context of Data. Collaboration with Free Software Movement of India (FSMI) and Free Software Movement of Karnataka (FSMK) will help elevate the Institution towards a larger perspective of role of Data in strengthening the role of Technology towards requirement of larger population.

CMRIT is a great place in terms of learning and polishing the skills of an individual. Since the day-1 my learning started, the faculties put tremendous amount of efforts to make courses more industry oriented which helps us in surviving in this competitive world. They give us an opportunity to think out of box and emphasis on practical knowledge along with the theoretical aspects.

Most of the time is spent in laboratories which let's us implement the theoretical concepts learnt practically. This helped me quite a lot in terms of understanding and learning the subjects well. The professors are keen at

providing an awareness of current trends in technology and even let us develop innovative projects with it. CMRIT provides lots of opportunities in terms of higher studies as well as getting jobs in reputed organizations. There was also counselling available for each student. I would like to thank my professors Mrs. Pappa M, Mr. Chetan H, Mr. Mahesh S Gour, Dr. Amit Jain, Mr. Vinay and all the faculty for blessing me with your knowledge.



**MAMATHA N**  
**VTU - 3<sup>rd</sup> Rank**  
**M.Tech.- VSLI Design & Em-**  
**bedded Systems**



**GISHA GOPAL**  
**Business Technology Analyst**  
**Deloitte India Pvt Ltd**

CMRIT has provided me and all my fellow classmates with the perfect foundation required for any graduate student both in terms of academics as well as extra-curricular. The teachers and staff have always been understanding of our needs. They have constantly supported our careers and propelled us into great heights. Even though

you may not realize their impact to your lives then, you do realize their efforts and good will when you step out into the outside world. I could not have asked for a better institution to complete my engineering.

# VISION

# MISSION

## 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

CMRIT seeks to realize its Vision with a Mission to:

- *Create the necessary infrastructure appropriate to the needs of the programmes and activities of the institution.*
- *Attract and retain well-qualified faculty and supporting staff.*
- *Create and facilitate an ambience for interdisciplinary engagement, leading to a healthy competition among students and staff, in pursuit of excellence through lifelong learning.*
- *Develop and operate mutually-beneficial programmes, partnering with industries, institutes and individuals of national and international repute.*
- *Create mechanisms to understand societal needs and provide solutions for the betterment of society.*

### THE CMR GROUP

<i>CMR University</i>	<i>CMR Life Skills Institute</i>	<i>Ekya School, ITPL</i>
<i>CMR Institute of Technology</i>	<i>CMR National PU College</i>	<i>Ekya School, J.P Nagar</i>
<i>CMRIMS (Autonomous)</i>	<i>CMR National Public School</i>	<i>Ekya School, Kanakapura Road</i>
<i>CMR University School of Legal Studies</i>	<i>NPS International School, Singapore</i>	<i>Ekya School, BTM Layout</i>

# GALLERY

CMRIT@MEDIA

**AWARENESS ON DRUG ABUSE AT CMRIT**

CMRIT Institute of Technology

CMRIT students participated in a seminar on drug abuse awareness. The event was held in the auditorium of CMRIT, where a guest speaker shared insights on the dangers of drug abuse and the importance of staying drug-free. The students were engaged in various activities and discussions throughout the day.

**ಸಿಂಗಾಪೂರ್ ನ್ಯಾಷನಲ್ ವಿಶ್ವವಿದ್ಯಾಲಯದಲ್ಲೂ ಪ್ರಬಂಧ ಮಂಡನೆ**

CMRIT students participated in a book inauguration event at the Singapore National University. The event was held in the auditorium of the university, where a guest speaker shared insights on the importance of research and innovation. The students were engaged in various activities and discussions throughout the day.

**ಬೆಂಗಳೂರಿನಲ್ಲಿ ವಿದ್ಯಾರ್ಥಿಗಳಿಗೆ ಕಾರ್ಯಾಗಾರ**

CMRIT students participated in a workshop in Bangalore. The workshop was held in the auditorium of CMRIT, where a guest speaker shared insights on the importance of research and innovation. The students were engaged in various activities and discussions throughout the day.

**'ಹಲ್ವ್ ಮೈಜ್' ಗೆದ್ದ ಸಿಎಂಆರ್‌ಟಿ**

CMRIT students participated in a workshop on AI/ML. The workshop was held in the auditorium of CMRIT, where a guest speaker shared insights on the importance of research and innovation. The students were engaged in various activities and discussions throughout the day.

**ಪೌರಾಟಯದ ನೀರು ಮರುಬಳಕೆ ತಂತ್ರಜ್ಞಾನ ಅಭಿವೃದ್ಧಿಗಾಗಿ ಸಿಎಂಆರ್‌ಟಿ ವಿಶ್ವವಿದ್ಯಾಲಯದಲ್ಲೂ**

CMRIT students participated in a workshop on AI/ML. The workshop was held in the auditorium of CMRIT, where a guest speaker shared insights on the importance of research and innovation. The students were engaged in various activities and discussions throughout the day.

**College students win Hult prize**

Three students from the Computer Science and Engineering Department of CMR Institute of Technology bagged the first prize in the HULT PRIZE ON Campus competition conducted recently at RV College of Engineering. 54 teams across 18 colleges under VTU from all over Karnataka had participated.

**Students develop anti-drone system**

CMRIT students developed an anti-drone system. The system was designed to detect and track drones in the vicinity of the campus. The students used advanced sensors and algorithms to create a robust system.

**ಸಿಂಗಾಪೂರ್ ವಿಶ್ವವಿದ್ಯಾಲಯದ ಶಿಷ್ಯರೊಂದಿಗೆ ಕಾರ್ಯಾಗಾರ**

CMRIT students participated in a workshop at the Singapore National University. The workshop was held in the auditorium of the university, where a guest speaker shared insights on the importance of research and innovation. The students were engaged in various activities and discussions throughout the day.

**ಸಂಯುಕ್ತ ಕರ್ನಾಟಕ**

CMRIT students participated in a workshop on AI/ML. The workshop was held in the auditorium of CMRIT, where a guest speaker shared insights on the importance of research and innovation. The students were engaged in various activities and discussions throughout the day.

**ಮಾದಕ ದ್ರವ್ಯಗಳನ್ನು ದೂರಗಾಳಿ ಕಂಡಾಡಿ**

CMRIT students participated in a workshop on AI/ML. The workshop was held in the auditorium of CMRIT, where a guest speaker shared insights on the importance of research and innovation. The students were engaged in various activities and discussions throughout the day.

**GENERAL**

CMR Institute of Technology: Lecture on Energy Optimisation of Data Centre InterConnection using Silicon Photonics by Lakshmi Kumar; college premises, 132, AECS Layout, IT Park Road; 2.30 pm

ಎನರ್ಜಿ ಆಪ್ಟಿಮೈಸೇಶನ್ ಆಫ್ ಡಾಟಾ ಸೆಂಟರ್ ಇಂಟರ್‌ಕನೆಕ್ಷನ್ ಯುಸಿಂಗ್ ಸಿಲಿಕನ್ ಫೋಟಾನಿಕ್ಸ್: ಉಪನ್ಯಾಸಕರು- ಲಕ್ಷ್ಮಿ ಕುಮಾರ್, ಆಯೋಜನೆ- ಸಿಎಂಆರ್‌ಟಿ ಇನ್‌ಸ್ಟಿಟ್ಯೂಟ್ ಆಫ್ ಟೆಕ್ನಾಲಜಿ ಸ್ಕೂಲ್- ಕಾಲೇಜು ಆವರಣ, #132, ಎಇಸಿಎಸ್ ಲೇಔಟ್ ಬೆಂಗಳೂರು ಏಟಿ ಪಾರ್ಕ್ ರಸ್ತೆ, ಮಧ್ಯಾಹ್ನ 2.30

**Institute to hold expert lecture**

CMR Institute of Technology is organising an expert lecture on 'Energy Optimisation of Data Center Interconnects Using Silicon Photonics', on Jan 8. Dr Lakshmi Kumar, principal engineering manager is delivering talk on overview of the growth in global internet traffic.

**CMRIT Students won the prestigious HULT PRIZE**

Three students from the Computer Science and Engineering Department of CMR Institute of Technology bagged the first prize in the HULT PRIZE ON Campus competition conducted at RV College of Engineering. 54 teams across 18 colleges under VTU from all over Karnataka had participated. Shriharish Gayak, Muhammad Bilal S and Vahidul Fakhriyahu, 5th semester students, pitched their water absorber product to the jury which won first in the last prize category with 90% of votes. The product added value to the solution of the Challenge of the year's HULT PRIZE which was to build startups that have a positive impact on our planet with every dollar earned. The idea was selected based on aspects of sustainability, scope of the product in the market and its impact on the society.

**ಸಂಯುಕ್ತ ಕರ್ನಾಟಕ**

CMRIT students participated in a workshop on AI/ML. The workshop was held in the auditorium of CMRIT, where a guest speaker shared insights on the importance of research and innovation. The students were engaged in various activities and discussions throughout the day.

**ಸಿಎಂಆರ್‌ಟಿ ತಾಂತ್ರಿಕ ಮಾಹಿದ್ಯಾಲಯದಲ್ಲೂ ಉಪನ್ಯಾಸಕರಿಗೆ ಶಿಕ್ಷಣದ ಕಾರ್ಯಾಗಾರ**

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**ಮಾದಕ ದ್ರವ್ಯ ವ್ಯಸನದ ದುಷ್ಪರಿಣಾಮ ಕುರಿತು ಜಾಗೃತಿ ಅಭಿಯಾನ ಕಾರ್ಯಕ್ರಮ**

CMRIT students participated in a workshop on AI/ML. The workshop was held in the auditorium of CMRIT, where a guest speaker shared insights on the importance of research and innovation. The students were engaged in various activities and discussions throughout the day.

**Institute hosts educational workshop**

Internal Quality Assurance Cell is organising a workshop on 'Outcome Based Education and NBA Accreditation' till Jan 10 at CMR Institute of Technology, AECS layout. The workshop aims at enlightening the participants on importance of OBE and planning its implementation.



**Myers-Briggs Personality Type Indicator (MBTI)** is a self-report inventory designed to identify a person's personality type, strengths, and preferences. No one personality type is "best" or "better" than any other one. It isn't a tool designed to look for dysfunction or abnormality. Instead, its goal is simply to help you learn more about yourself. MBTI personalities of our CMRIT are:-

The Commanders of CMRIT



The Mediator of CMRIT



The Mastermind of CMRIT



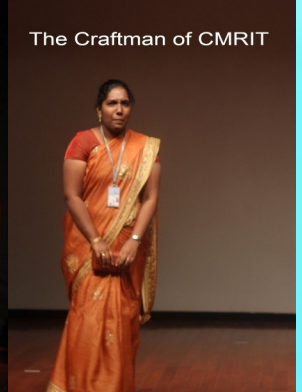
The Providers of CMRIT



The Supervisor of CMRIT



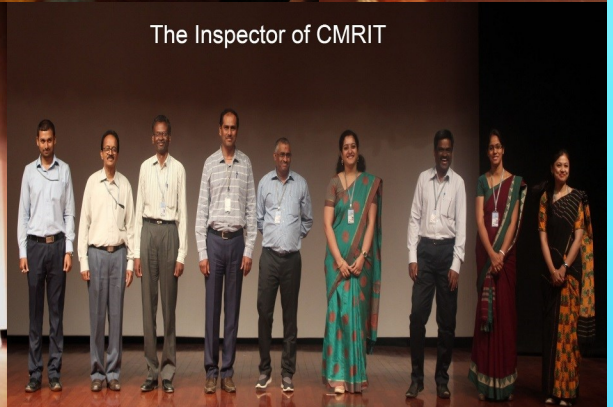
The Craftman of CMRIT



The Givers of CMRIT



The Inspector of CMRIT



The Nurturer of CMRIT



The Visionary of CMRIT



The Thinkers of CMRIT



The Counselor of CMRIT



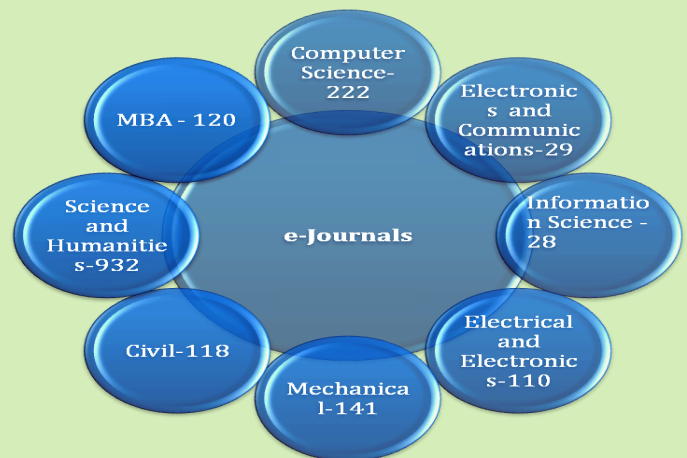
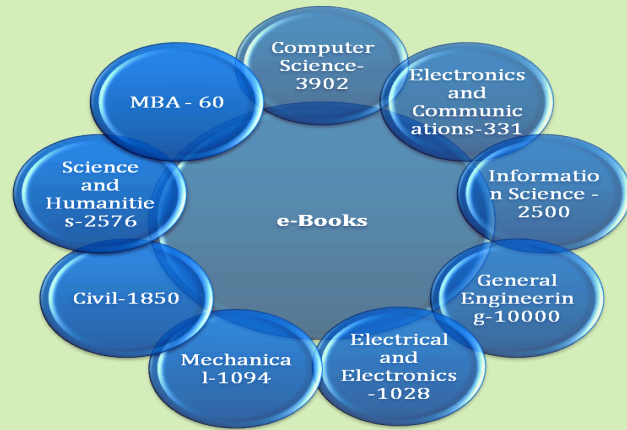
The Champions of CMRIT



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