

# CMRIT CONNECT

6<sup>th</sup>

Best Private  
Engineering college  
In Karnataka



CELEBRATING 25 YEARS



**CMRIT**

CMR INSTITUTE OF TECHNOLOGY, BENGALURU.

ACCREDITED WITH A+ GRADE BY NAAC

32<sup>nd</sup>

Best Private  
Engineering college  
in India



# CMR INSTITUTE OF TECHNOLOGY

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***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>
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<i>CMR University School of Legal Studies</i>	<i>NPS International School, Singapore</i>	<i>Ekya School, BTM Layout</i>
		<i>Ekya School, Byrathi</i>

## MESSAGE FROM THE PRINCIPAL



**Dr. Sanjay Jain**  
Principal

Dear Reader,

We are happy to share that Business World Education, in its July 2018 edition, has ranked CMRIT as 6<sup>th</sup> Best Private Engineering College in Karnataka and 32<sup>nd</sup> across the country.

The last quarter was very eventful one for all CMRITians as one batch of our students graduated out and a fresh batch of students joined in. Most of our graduated students are now well placed in reputed companies, some of them opted for higher studies, and few of them have chosen entrepreneurship paths.

The new batch of our students went through three weeks of induction program to get themselves familiar with the new learning environment at CMRIT. Faculty 'mentors' were allotted to each student. Students learnt about various student-centric initiatives done at CMRIT. Students were apprised of Outcome-based Education (OBE) and the graduate attributes that they need to inculcate. Various clubs were introduced and students became members of the clubs they were interested in. Experts were also invited from outside to help student understand core human values and become sensitive to society.

At CMRIT, we are preparing students with additional skills, required for placement, right from the first year through Tie-Your-LACES (TYL) program. The program focuses on Language, Aptitude, Core, Experiential, and Soft-skills. Our 2<sup>nd</sup> year engineering students are going through an additional course on Python & Database course while 3<sup>rd</sup> year engineering students are learning MATLAB / R software tool. Our MBA students had a course on Data Analytics and are having hands-on SAP FICO to get prepared for placements. Additional aptitude and technical courses were conducted during vacation for our MCA and engineering students to develop skills required by industry.

We are organizing special training for interested students on GRE/TOEFL and GATE. Students are also getting opportunities to interact with industry professionals through workshops and experts lectures. Lots of activities are planned for the current semester by each and every department. Our faculty members are also actively involved in research and innovation activities through our nine Centres-of-Excellence and Innovation & Entrepreneurship cell. Hope you will enjoy reading through this edition of CMRIT Connect!

**Dr. Sanjay Jain**  
Principal

### 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.

## MESSAGE FROM THE VICE-PRINCIPAL



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

*It is very proud and happy moment to share the achievements of our young and energetic students and esteemed faculty through this news letter. I would like to congratulate all the achievers in curricular, co curricular and extra curricular activities.*

*I am very glad to learn that, many of our student projects are made their way towards patents and products.*

*Hope to achieve many more awards and achievements in the academic year 18-19.*

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

## HOD'S COLUMN



**Dr. Raveesha K H**  
HOD, Basic Science

*I am extremely delighted that our newsletter for the first quarter 2018-19 is being released. The newsletter team has made this issue spectacular highlighting the achievements through diverse activities. 15th Graduation day was celebrated with over 1100 students participating in the ceremonial procession . It was a momentous occasion for the Graduands'18 who are confidently entering in to their professional career.*

*Faculty Induction program saw Principal and senior professors welcoming new staff through informative sessions. The Inaugural function of Academic Programs'18 became the platform to welcome the budding engineers to portals of CMRIT. A glorious start through enlightening*

*lectures by eminent personalities blended with presentations by heads of departments, field visits, club activities, sports events inspired these students to dream and to excel.*

*Kudos to the newsletter team*

*Happy reading!*

*Dr. Raveesha K H*  
*HOD, Basic Science*



# 15<sup>th</sup> GRADUATION DAY

Today's budding engineers are the future of this country. They must build a vibrant nation through innovations in Science and technology. Technology can be used to install better facilities, transparent administration and to create wealth for the country. Global challenges which need immediate attention are related to energy and water security – said **Padma Vibhushan Dr V K Aatre, Former Director General, DRDO and Scientific Advisor to defence minister** . He was speaking at the 15<sup>th</sup> graduation day celebrations at CMR Institute of Technology.



Creativity plays a major role in engineering a revolution. Life offers challenges and opportunity accompanies it. Engineers must utilize their communication skills, innovative ideas to overcome them, he added. Narrating his 4 decade experiences in research and development , he encouraged students to inculcate hard work and sincerity. He also expressed upon the graduating engineers to focus on how energy can be harnessed without causing harm to

the environment. Stressing the importance of utilizing solar energy, he elaborated that currently the low efficiency of solar cells and high costs are to be addressed through research in material science. He cautioned about excess use of plastics which poses a great danger for the ocean life. He felicitated university rank holders , best project winners, student council members of the college.







Earlier **Dr.Sanjay Jain, Principal** welcomed the gathering and highlighted achievements of the students. **Dr.Sabitha Ramamurthy ,Chancellor, CMR university and President CMRJT** administered the Oath to the graduates. Trustees of CMRJT, Industrialist and academicians were present on the occasion .

1019 undergraduate engineering and 196 postgraduate students participated in the ceremonial procession . Prateek Shetty ,a graduating student of Computer engineering who was in a jubilant mood, stated his future plans by saying “My teachers constant guidance and encouragement has enabled me to achieve this success”. Mr.Manikanta, a graduate of Mechanical engineering observed that he has inculcated leadership qualities which are necessary to face the challenges in Industry. Abhilasha Gupta who secured the highest was happy to have been placed in a top MNC which offers opportunities for learning and growth . I am glad that more than 700 students of my batch are placed. Experience of carrying out several projects in the college will help me to pursue research, she said.

Mrs.Anita, a proud parent mentioned that her daughter has been moulded into a core professional who can take up challenges in the Industry.



# Inauguration of Academic Programmes 2018

## Innovations from Engineers have potential to transform the society – Vice Chancellor (VTU) Dr.Karisiddappa



Inauguration of Academic Programmes-2018 held on 11/8/2018 at CMR institute of Technology. **Dr.Karisiddappa** , Vice-Chancellor-VTU inaugurated and elaborated on the initiatives being taken to encourage the talented students to take their innovative ideas from labs to market. VTU is proactively funding innovative projects aimed at rural technology, IT sector and engineering. He encouraged budding engineers to inculcate curiosity and ability to ask questions. He called upon the students to learn from the mistakes and continue facing failures boldly. He stressed that knowledge, skill set and confidence are very important to achieve success. He observed that practical training through internships plays a major role in providing industry exposure to the students.

**Dr M S Shivakumar** , Vice-Chancellor, CMR University who was present on the occasion mentioned that every branch of engineering has potential to provide solutions to real life problems. An orientation programme was held to enlighten students and parents about the course structure, examination details and most importantly their responsibilities. He felicitated academic toppers and innovators.

Earlier, **Dr Sanjay Jain**, Principal welcomed the gathering and briefed about the achievements of institution. **Sri KC Jagannathreddy**, Secretary, CMRJT presiding over the function elaborated on the efforts made by the management to provide best facilities to enable students to acquire practical knowledge.



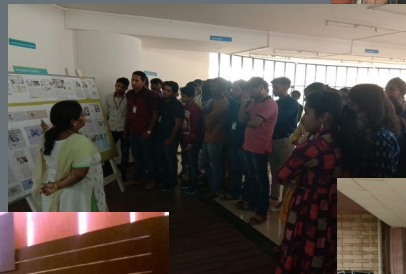
# 1st Year Induction Program

1/8/2018 TO 23/8/2018

Induction program for first year students is commenced on 1/8/2018. During this program, students visited all the engineering departments, research centers, center of excellence, Incubation center and all the facilities in the campus. In addition to this, club activities, sports, creative arts, lecture by eminent personalities, field visits were organized. Some of the activities conducted were-

- Introduction to college – VISION & MISSION Key Initiative – Principal & Vice Principal
- Presentation on Activities of Incubation Centre – Entrepreneurship resources Director , Placement and Career and Guidance
- Talk on Science -Engineering – Society
- Creative Arts –Introduction
- Physical activity
- Visit To Local School/Orphanage/Swachh Bharat
- Visit to Local Historical place VIT museum

Library Orientation and Awareness program for 1st Semester B.E students was organized in CMRIT Central library during August 07-20, 2018. Nagarathna S R, Librarian, conducted the orientation program which included hands-on sessions for newly joined B.E students, enabling them to get abreast with the library resources such as text & reference books, e-Resources, print journals, e-journals, general magazines, newspaper, etc.





# I&E CELL AND COEs

## Innovation & Entrepreneurship Cell

**Greenhood Technologies has given funding of Rs 60,000 banner project:** Greenhood technologies (founded by Ravichand Lavu, an alumni of CMRIT) has an MOU with CMRIT for R&D in solving societal problems & conduction of design thinking workshops. The issue of solving societal problem of recycling of flex banners was worked upon and the patent has been licensed.



**Grand finale FKCCI Manthan June 2018:** CMRIT's Bellandur project has won "Green initiative award at FKCCI Manthan 2018. The chief guest Padma Vibushan Dr. Veerendra hedge, Dharmadhikari, Kshetra dharmasthala, has appreciated the efforts and enquired about deploying the same.



## **Best poster award@ PMPC18 Conference:**

Project Management Practitioner Conference (PMPC18) Bangalore Chapter has an annual event wherein the Bellandur team was invited to present their latest results and CMRIT won the best poster award.



**Google team** visited I&E cell to know the details about strategies followed for success of **Google's DSC** at CMRIT in August 2018: A team of five engineers from Google visited CMRIT and interacted with I&E faculty to know the reasons for success of DSC at CMRIT. Among the world DSC teams, only our DSC lead was invited to speak at the California' global DSC conference.

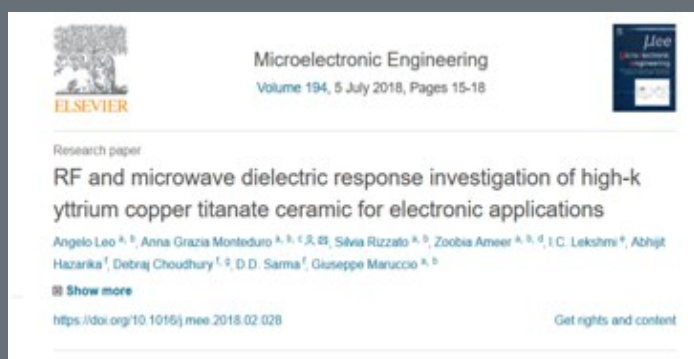
## CoE: Materials Science/ Sensors & Nanoelectronics:

This centre of excellence at CMRIT has brought out two research papers on High K dielectrics useful for electronic applications during the last quarter by **Dr. Chaitanya Lekshmi Indira** (also@Chemistry) as part of centre's continuing efforts in developing functional materials for electronic applications;

(i) "*RF and microwave dielectric response investigation of high-k yttrium copper titanate ceramic for electronic applications*", published in *Microelectron. Eng.* 194, 15-18 (2018); and

(ii) "*High-k YCTO thin films for electronics*", published in *IEEE Xplore Conf. Proc. 2018 Int. Conf. IC Design Technol.* DOI: 10.1109/ICICDT.2018.8399788.

Centre has also come up with initiation on computational methodology for drug design through consistent efforts put by **Dr. Suvitha A** in spectroscopic, reactivity, optoelectronic and drug likeness property analyses of oxadiazole derivative molecules, which are also compared with experimental data with her collaborators. The study was published in *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy* (Ref: *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy* 205 (2018) 95–110).



Research scholars, **Rahul Pillai** and **Lakhirupa Devi** from the centre were selected at all India level for Hands-on training program on Nanofabrication Technologies at Centre for Nanoscience and Engineering (CeNSE), Indian Institute of Science, Bengaluru under Indian Nanoelectronics User Program (INUP) offered by the Department of Electronics and Information Technology (DeitY), Government of India. The projects presented by them during the workshop, *Metal-oxide polymers for Resistive switching studies*; and *Binary Metal oxide Heterostructures for Nanoelectronic Applications*, were selected for execution at INUP grants program and are currently undertaking device fabrication at CeNSE, IISc.

**Lakhirupa Devi** co-authored a research article "*A Comparative Study on NiO Nanocrystal modified Graphite and Au Electrode Matrices as Immobilization Supports for Laccase Enzyme in Amperometric Biosensing for Catechol Detection*", *Adv. Mater. Proc.* 3 (5), 304-311 (2018).

**Preetha S.**, scholar at Research Centre, Chemistry was selected to present a research paper (oral presentation) on "*TiO<sub>2</sub>-rGO Nanocomposites with reduced band gap for Improved Photoconversion Efficiency*"



at





the International Conference on Nanomaterials, ICN 2018, held at International and Interuniversity centre for Nanoscience and Nanotechnology, M. G. University, Kottayam.

### CoE: Datadriven IOT

Organized a 2 day Workshops on **INTERNET OF THINGS**, Resource Persons from **C-DAC,IETE and Besant Technologies** , Bangalore .



### CoE: Metallurgical Engineering

As part of the CoE Mega application, center has been actively working on the development of a lightweight aluminum composite with agro-waste filler particles. The work was initiated with the help of students of 3<sup>rd</sup> Semester and faculty members of mechanical engineering department.

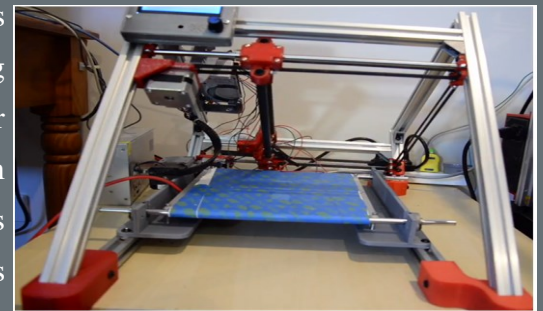


CoE for Metallurgical Engineering recently procured a Carl Zeiss optical microscope with image analysis facility for metallurgical characterization with the help of funding from CMR

group of institutions. Having the advantage of owning one of the best optical microscopes, we would be initiating outsourcing this facility to outside users along with in-house use.

### CoE: Additive Manufacturing

The CoE-AM team was quick to recognize the constraint imposed by the size of the 3D printer frame upon the maximum size of 3D printable parts. In an attempt to overcome this limitation the CoE team have struck upon the novel idea of making one of the dimensions of the 3D printed part to infinity! A printer capable of printing parts of infinite length is under design, and is in its final phase. The table that support the 3D part while printing is rendered movable like in a belt conveyor. An added advantage in this design is that the printer can now produce similar or dissimilar parts one after another with no human intervention at all. This paves way to automatic mass-production of parts!



### CoE: Natural Resource Management

CMRIT 's 2018 Pass out batch students Divakar Aradhya, Dharsini G M, Chandana M and Charana Gowda of civil department, under the guidance of Prof. Shivakumara.M.J developed concrete blocks using plastic waste thereby reducing pollution and construction cost.



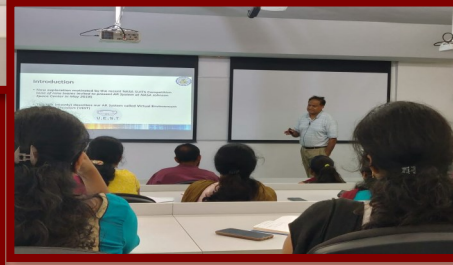
## WORKSHOPS



- One week workshop on **Machine Learning** was organized by Department of CSE & ISE 23<sup>rd</sup> July 28<sup>th</sup> Jul. 54 candidates registered from various institutes and organization. Workshop was inaugurated by **Principal Dr. Sanjay Jain** and Vice Pricipal **Dr. B. Narasimha Murthy**.



**Mr. Bikash Borah**, Senior Developer, Kuliza Technologies, **Mr.Sairam Raj.K**, Ph.D in Data Science and AI, University of Southern California, Los Angeles, USA. **Mr.Pankaj Bhatt**, and **Mr.Vivek Wandile**, Wipro Analytics, Bangalore, were the prominent external resource persons and **Dr. P N Singh**, **Dr. Jhansi Rani P**, **Dr. Farida Begam** were the internal resources for the event.



- Department of ECE organized a 2-day workshop on **Project Based Learning Using Matlab and Simulink**, by **Mathworks, Bangalore, CoreEL Technologies, Bangalore**, Resource persons were **Mr. Tabrez Khan**- Senior Application Engineer, Mathworks, Bengaluru, **Mr. Manisankar** – Application Engineer, CoreEL Technologies, Bengaluru. **Mr. Pramod Kumar Naik**, Application Engineer, CoreEL Technologies, Bengaluru.



A 6-day Workshop on Business Data Analytics was organized by the Department of Management studies from 25/7/18 - 31/7/18 **Dr. S. Gokula Krishnan**, HOD, Department of Management studies was the key resource person of the workshop.

15-day “**TRAINING IN ADVANCED AUTO CAD AND RIVET**” was provided by MEDINI , VIJAYANAGAR, from 16th July to 31st July, it was organized by department of CIVIL

Department of TCE, CMRIT organized a 2-day workshop on **PCB design and fabrication** in association with **Indian Tech-Keys**. The workshop focused on design etching of PCBs.





## DEPARTMENT TECHNICAL EVENTS

### Dept of MCA:

- A lecture on **Pro in JAVA Script** by **Ms. Daya** was delivered on June 18<sup>th</sup>, it was attended by more than 40 students.



- Hands-on workshop was conducted on **ReactJS, React Native, Bootstrap, Typescript, NODE-JS** by **Mr. Ninoop** on 20th June.



- Hands-on workshop on **AWS & Puppet** conducted by **Amit Morya**, S/W Engineer, **Ms. Gomathi**, HoD MCA, **Ms. Moumita Roy**, Asst. Professor, Dept of MCA, July 28<sup>th</sup> 2018.



- Training Programs on **AngularJs**, 06/08/2018.

- Guest Lecture on **SAP-ERP** by **Ms. Priyanka Varma**, Project Lead Marlabs Innovation Pvt Ltd



- Guest Lecture on **SAP & Internship Opportunities** by **Mr. Avinash & Mr. Arun M** Maventec Pvt Ltd, Bangalore.

**M**, Senior Software Engineers,

- Guest Lecture on **Block Chain** by **Dr. Anbunathan**, Sr. System Architect, LG Soft India Ltd.
- Guest Lecture on **Coding Standards & Internal Architecture of Java** by **Mr. Ramanujadasu**, SSE, Robert Bosch Ltd, Bangalore

### Dept of MBA

- Seminar on **E – marketing in today's scenario** by **Mr. Amalan Bhattacharya** of Throttle PAD 2.0 was held on June 9th.
- Training Programmes conducted on **Certificate on Business English**.
- Guest Lecture on **Microfinance** by **Mr. Padmajareddy**, Founder, spandana spoorthy.
- Training Programmes conducted on **ERP SAPFICO**.



### Dept of CSE/ISE



- Guest Lecture on **Augmented Reality – Developments and Challenges** by **Prof. Shivakumar Shastry** Professor, The University of Akron, Professor with Department of Electrical and Computer Engineering; Academic Director for Data Science, Analytics and Information Technology, The University of Akron.

- Workshops **Placement Booster** was conducted on 13/07/2018.
- Training Program Full Stack web development .
- Expert Lecture on Debugging in Linux by Mrs. S.Radha, Senior Project Manager, Synopsis India Pvt
- 6 days Training Programmes on Data science using python



### Dept of ECE



- Guest Lecture on **Machine Learning: Approaches and Applications** by **Shrinidhi Rao**, Senior software Design engineer, Intel India, Bangalore .
- Guest Lecture on **Campus to Coporate-A curtain Raiser** by **Vipula Chhabra**, Image Consultant and trainer .

### Dept of TCE:

- Guest Lecture on **IT Infrastructure Management** by **K.Ravikumar**, Center Head, LIVEWIRE .
- Guest lecture on **opportunities and challenges in IT Service Industry** for VII sem students of TCE. by **Divyam Raj**, Business analyst .





**Dept of Mechanical:**

- Guest Lecture on **CAREER PROSPECTS IN MECHANICAL DESIGN** by **Mr Mathew M,CEO – EDu-CADD**, Bangalore .
- Guest lecture ON **PLC & SCADA** by **Shivashankar , Prolic Systems and Technologies**, Bangalore.
- A guest lecturer on **3D Printing Evolution**

**Dept of EEE**

- A Guest Lecture on **Digital Marketing** by **Ms.Aishwarya Passi, Production Analyst ,Epsilon** was held on **July 4<sup>th</sup> 2018**.
- Guest Lecture on **Electronic Content Management** by **Mr. Raghavendra Narayana , Project Manager, Cognizant .**
- Guest Lecture on **Relay Coordination** by **Ms. Veena Kumari, Electrical Engineer, Power, Research and Development, Bangalore**
- Guest Lecture on **Eighth wonder of the world secret of the rich** by **Mr Uday, Assistant Manager, DXC Technology**

**Dept of BASIC SCIENCE:**

- Expert Lecture on **Reasons for Success of Google DSC at CMRIT .**
- Expert lecture on **Engineering: A gate way to professional life** by **Mr.Vipul Gaur, Delivery Manager, Ericsson Global Private LTD .**

**Dept of CIVIL:**

- Expert Lecture on **MODERN TOOLS IN CIVIL ENGINEERING** by **MATHEWS THOMAS, EDUCADD**
- Seminar/ Workshop organised on **VALUE ENGINEERING IN CONSTRUCTION** by **Ms. Anita Lukose,Board member of the International Certification Board of SAVE International, the Associate Vice President of the National Council of Indian Value Engineering Society.**



## Institute Level Cells

### IQAC: Internal Quality Assurance Cell

To enhance the quality in the academic process and also as a pre-accreditation exercise, Internal Quality Assurance Cell (IQAC) was formed in the college. The objective of the cell is to develop a system for conscious, consistent and catalytic improvement in the overall performance of the institution at all levels with the involvement of all stakeholders. The cell had organized and conducted different activities between Jun –Aug 18. The activities were-

- The “CMRIT Staff Orientation Program” On Jul. 30 – Jul. 31, 2018

The orientation Program’s primary goal was to familiarize the participants with their roles as teachers. It was designed to orient them on various generic aspects of teaching learning, instructional methodologies, and assessment and evaluation techniques.



- Talk by CHINMAYA MISSION TEAM MEMBERS Ms. Shruti Vij and Mr. Doraiarasu on 8/8/2018 with the theme of “**WIN OR LOOSE: YOU CHOOSE**”.



- Talk by Dr George Williams, Professional Counsellor on 10/8/2018 - **Learn to realize your problems and take tough decisions.**

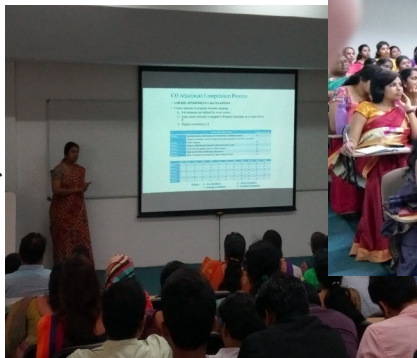


## Institute Level Cells

- Session on CO-PO attainment computation is conducted on 27th August & 28th August 2018.

Objectives of this session:

- ◇ To expose faculty familiar with the process of CO-PO attainment computation.
- ◇ To make them clear with the process of setting the targets along with gap analysis
- ◇ To be able to set the blooms levels and mapping by their own



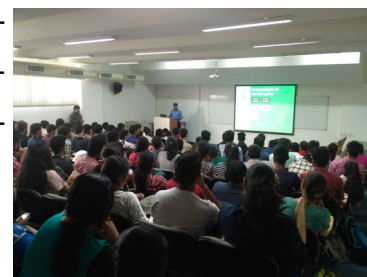
This session helped faculties to understand the CO-PO computation process through direct and indirect methods.

### **EE&C: External Exams & Competitions:**

Activities included

- **Awareness session on Study abroad on 10-8-18**

Speakers -Mr Ajeeth Peo Francis (Director and Co-founder, PlusPrep Education), Mr Pankaj Talwar (General Manager, Jamboree Education), Mr Prabhakar Rao (Senior Trainer, Manhattan Review), Anoop Joseph (CMRIT Alumnus, accepted into Northeastern University, Boston).



- **Awareness session on GATE opportunities on 20-8-18,**

Speakers: Mr. Philippe Libersa, Director, Alliance Francaise de Bangalore & Ms. Florence Lesage, the Course Director. Ms Vidya Suresh (Alliance Francaise), Ms Umita A Melwani (Founder and Managing Trustee of the Institute of Foreign Language and Culture Ms Savita (Inlingua Bangalore).



- **Awareness session on “ Why to learn Foreign Language” on 28-8-18,**

Speakers: Mr. Philippe Libersa, Director, Alliance Francaise de Bangalore & Ms. Florence Lesage, the Course Director. Ms Vidya Suresh (Alliance Francaise), Ms Umita A Melwani (Founder and Managing Trustee of the Institute of Foreign Language and Culture Ms Savita (Inlingua Bangalore).

## AE: Academic Enhancements

### MOOC Courses

Students are encouraged to register in at least one MOOC course every semester which would help them to enrich their knowledge and make them more competent in this competitive world. Total of 1590 student registered their MOOC courses via different online sources such as NPTEL, CourseEra, Udemy, Edx. As a part of continuous learning and quality enhancement all faculty members had also registered MOOC courses on latest technology.

### Mini Projects

To inculcate practical element in student's knowledge, mini projects have been planned. Total of 955 mini projects have been registered from all departments. The mini projects for the current semester will be displayed on 10th Nov (3rd & 5th Sem) and 24th Nov (1 Sem), Parents are invited to witness the same. Exceptional mini projects will be identified and rewarded.

Mini Projects awards were given to best projects across all branches and basic science, during even semester of academic year 2017-18



#### 1<sup>st</sup> Prize

- 4 axis Robotic Arm
- Automatic Terrain
- An IOT network with ESP8266 WiFi Controller
- Obstacle Avoidance and Edge Detection Car
- Transformer assembly
- Cylindrical model of a human leg.
- Object Recognition using deep learning.
- Auction Algorithm using Machine Learning
- Tile Cost Calculation Algorithm
- Number Plate Detection System
- Design and Development of Filastruder for 3D printer
- Mulberry plant Stem cutter
- Study on Manning's roughness coefficient in a Laboratory Tilting flume
- Working model on filter using sand and charcoal as filter media
- Automatic streetlight intensity regulation
- ARM cortex M3 based Collision detection system
- Tic-tac-toe Game
- Digital Evaluation System
- Laundry Management (Dip n Dry)

#### 2<sup>nd</sup> Prize

- Decentralized voting app
- Water Leakage Detector
- Real Time Multistation Rack Monitoring System
- Subnet Hosting to Obtain Broadcasting
- Mobile Jammer Circuit
- Solar inverter with battery
- Sentiment Analysis on tweets
- Retailer - Customer connect
- Tourist Guide App
- Movie Success Prediction
- Walking Robot
- Motor sensor indoor based lighting system
- Electrokinetic Stabilisation
- Design, Detailing and Model of gusse sted base

#### 3<sup>rd</sup> Prize


- Water level indicator
- Metro Billing System
- Solar Tracking System
- Home automation controlling using Bluetooth Technology
- Sphenic Numbers game
- Stegnography
- RADAR
- Neural network for gaming
- Garage door opener
- Morse code encryptor
- COD using Lab On Chip
- Purification of water using activated charcoal
- Digital Name Tag
- Line following Robot
- Power generation using inverter
- Sign language translation
- Temperature Sensor with Temperature Displayed on Console
- Design and implement a Manchester coder and decoder
- Hydro power plant model
- MATLAB program to design of 3 phase induction machine
- PurView : Web based app for search engine
- Water level controller
- Web RTC Implementation
- Hydraulic Excavator
- Develop pipe network for single storied residential building
- Can Eggs take Load?

## SC&A: Student Club & Alumni


**Technical Student Clubs:** Total of 138 activities are planned for this semester under total 26 technical clubs , 7 new clubs have been introduced this semester to accommodate various interests of students.- ECO Club, MIND Spark, WITY Club, CONNAISSANCE (Quiz Club), HR Club, Marketing Club, ED Club.




**Non Technical Clubs:** Total of 8 clubs are catering to the creative need of CMRIT students across multiple disciplines.




**LITERATURE CLUB**  
This club is all about literature and improving one's self-confidence.




**ART-ED**  
Art club aims to unleash the artistic side of every individual in the most astonishing way possible.




**KINESIS**  
The Dance.Club aims at instilling a sense of positivity in our lives through the art of dance.




**AAROHAN**  
Aarohan is a family which consists of people who love music.




**PHOTOGRAPHY CLUB**  
The Photography Club provides accessible opportunities and platforms to photography enthusiasts.



**THEATRE CLUB: TAKE A BOW**  
Every mask goes with a specific character based on the way it looks. Masks we wear on stage are to portray the different phases of men. A mask signifies that we are merely actors in our life's drama.



**ಕನ್ನಡ ಸಂಸ್ಕೃತಿ ಸಂಘ (KANNADA SAMSRKUTI SANGHA)**  
ಕನ್ನಡ ಭಾಷೆ ಮತ್ತು ಸಂಸ್ಕೃತಿಯ ಮಹತ್ವವನ್ನು ಸಾರುವ ಜೊತೆಗೆ, ವಿದ್ಯಾರ್ಥಿಗಳ ಮನ ಮುಟ್ಟಿಸುವ ಗುರಿಯನ್ನು ಹೊಂದಿದೆ ( It aims to spread awareness about Kannada language and culture and teach the language to those people who are interested.)



**TECHNOLIX**  
To promote technical and managerial skills among members and provide a platform for innovation creative learning.



# CLUB ACTIVITIES



- Google Cloud Study – JAM , A workshop on **“Introduction to Google Cloud, Compute Engine and Scientific Data Processing”**, was organized by GOOGLE DSC under the leadership of **C J Anoop, Lead for Google DSC on 13<sup>th</sup> July 2018.**
- Google DSC Club conducted Flutter Workshop on 20-08- 2018




- FSMK Club conducted In-house Club Members Meet on 10-08-2018



- CODECHEF Club organized Competitive Coding on 28-08-2018



 •The 11th installation of Office bearers and induction of new members to the Rotaract club of CMRIT was conducted on 28th August 2018.



- Inauguration of ECO club in department of CIVIL engineering.



- MINDSPARK club conducted Python-1 session by Fardeen & Pavan





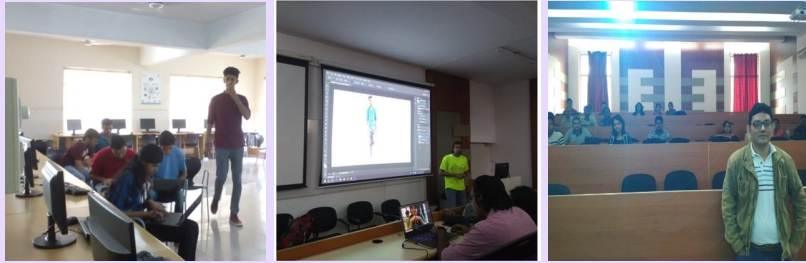
# CLUB ACTIVITIES

## RISE/ACE CLUB

DEPT OF ISE/CSE



Workshop on HTML and CSS session, Adobe Photoshop , session on AI and It's Applications.



## SCIENCE CLUB (E=MC<sup>2</sup>)

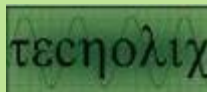
BASIC SCIENCE DEPARTMENTS

Quiz on " Environmental aware-ness"



## TECHNOLIX/ETA

DEPT OF TCE/ECE



Aptitude Test on 16/08/2018 , Player unknowns Battle Grounds(PUBG) competition.



## ECOBIZZ/PROTOCOL CLUB

DEPT OF MBA/MCA



Web Page Creation workshop on 17-08- 2018 , Mak-erSpace Fabrication Workshop on 25-08-2018.



## SME/SCIE

DEPT OF ME/CIVIL



Workshop on Sculpting Imagination , Regard before you Dis-card/Best out of Waste , Picture Perception and Discussion Test, Mechanical Talent Hunt, Group Discus-sion, Bridge making with popsicle sticks without adhesives, group discus-sion.



## FEEE

DEPT OF EEE



FEEE club organized Tech Quiz , Workshop on Android



## CLUB ACTIVITIES



Basic Photography workshop along with a small contest in the college campus by Photography Club.

Auditions for Arman Malik music concert by Music club.



Auditions for the Dance club

## CONNECTING TO INDUSTRY

**Industrial Visit:** Students of ISE Visited C-DAC, Electronic City, Bangalore Campus on 10/08/2018 and Mechanical students visited TVS Motors.



**MOU's: Citimagic Online Services Pvt Ltd ( Innomentor)** An ERP training on SAP FICO was initiated for the benefit of II Year MBA Finance Students, With an MOU Signed between CMRIT and Innomentor Bangalore for the Period of One year.

An MOU was signed between **MEDINI Solutions, Bangalore** and **CMRIT** on 15th July 2018 .



## CONNECTING TO THE COMMUNITY



### RELIEF MATERIALS FOR KERALA/KODAGU

The Student Council of CMRIT collected supplies to help flood hit Kodagu and Kerala. Materials donated toward this cause included Soap, Toothbrush, Toothpaste, Towels, Medicines, Dettol, Basic First Aid Kits, Packed foods, Sanitary Pads, Candles, Match box, Torches, School Stationery for kids and also monetary help for relief fund.



## INTERNATIONAL YOGA DAY

Fourth International Yoga Day was celebrated at CMRIT by students and faculties by taking part in mass yoga sessions.



# TYL – TRAINING AND PLACEMENT

## Tie Your LACES(TYL)

Tie Your LACES (TYL) is a career development program that complements VTU Course Curriculum to bridge the gap between course curriculum and the industry expectation. TYL initiatives will help to transform the students to a corporate professional. ‘LACES word in TYL’ stands for Language, Aptitude, Core technical, Experiential and Soft skills development. TYL activities support students to meet their career plans as well as to improve the overall employability of the individual.

**TYL - Python & Database** program has been launched to inculcate basic programming skills in 2nd year students of all streams. More than 600 students of different branches have registered for this 30 hours course. This will enable the students with necessary skill set .Course content was framed by Infosys and it was offered free of cost to all the participants.

**TYL – R Programming & MATLAB** program has been launched to inculcate tools & programming skills in 3rd year students of all streams. More than 550 students of different branches have registered for this 30 hours course. This will enable the students with necessary skill set

## **TYL Scorecard :**

Tie Your LACES Scorecard describes all the required skills, its scoring and recommended proficiency in each of this skill. While Tie Your LACES Scorecard is like a reference card, student fills up target and actual data in the below Actual Vs Plan table of TYL Scorecard.

Tie Your LACES Scorecard

Skills	Description	TYL Score	Required	Comments
Language Proficiency in English	Language proficiency is described as below mentioned Levels: A1 – Beginner A2 – Elementary B1 – Intermediate B2 – Upper Intermediate C1 – Advanced C2 – Proficient	1 for A1 2 for A2 3 for B1 4 for B2 5 for C1/C2	4	For effective business communication in Corporate World
Aptitude	Aptitude has 3 components: i) Verbal ability ii) Quantitative iii) Logical Reasoning	Test Score of 1 to 5 mapped to absolute score	3	Will use one of Aptitude Assessment Test (TBD)
Core technical	Fundamentals of Core subjects	Result Rating on scale of 1 to 5	3	Administer a test similar to GATE
	Certifications in identified technical courses like: Python, DB, MATLAB, R	No of Cert. (with Top 50%)	4	Minimum of 4 certifications with above average rating in dept. wise identified certifications
Experiential	Mini Projects	No of Projects	4	
	Internship	No of Weeks/2	4	
Soft skills	Presentation skills Group Discussion Business Etiquette	Trainer Rating on scale of 1 to 5	3	Will use ratings from Trainer

The department faculty guide will guide the student in preparing, executing and reviewing the TYL plan to meet one's career objectives.

Tie Your LACES Scorecard (Actual Vs Plan)

Parameter		1	2	3	4	5
Language Proficiency in English	Target					
	Actual					
Aptitude	Target					
	Actual					
Core - Fundamentals	Target					
	Actual					
Core - Certifications	Target					
	Actual					
Experiential - Mini projects	Target					
	Actual					
Experiential - Internships	Target					
	Actual					
Soft Skills	Target					
	Actual					



Number of companies that visited CMRIT during quarter Jun 18– Aug 18: **34 companies**

The total number of students placed during quarter Jun 18– Aug 18: **130 students**

Pre placement talks were given by HRs of ZENKEN Corporation, Surya Software, Simeio Solutions, HPE.



And many more...



## STUDENT ACHIEVEMENTS

**Following students secured cent percent marks in Engineering Mathematics-II , CAED and Engineering Mathematics IV in VTU examinations held during June-July 2018.**

### M-II Centum Achievers - June-July 2018

Name	USN	Faculty
MS.NIVEDHA JAYAKUMAR	1CR17EC127	PROF.ASHA.K.N
MS.HABIBAAHMED	1CR17IS032	PROF.SHANKAR NARAYAN
MS.ASHIKA PREMMAIH	1CR17CS022	PROF.SUMATI THAREJA
MR.SHIVAM CHOUDARY	1CR17EC183	PROF.PRATAP
MR.BALACHANDRA G BHAT	1CR17EC042	DR.SHWETA GAUR

### CAED Centum Achievers - June-July 2018

PRADEEP L	1CR17EC134	DINESH R
NIVEDHA JAYAKUMAR	1CR17EC127	DINESH R
PAVANA P	1CR17EC131	DINESH R
SAISANJITH REDDY R	1CR17EC171	HARISH P
RASHMI T	1CR17EC154	DINESH R
B VARSHA	1CR17EC040	DINESH R
BINDU R	1CR17EC048	DINESH R
CHANDAN R	1CR17EC052	MAHARUDRESH A C
ANIRBAN BHATTACHARJEE	1CR17ME009	VENKATESH NAIK
PRAJWAL BABANRAO PATIL	1CR17ME059	SRINIVAS REDDY M
DARSHANA JAIN N	1CR17EE016	SRINIVAS REDDY M
KRUTIKA	1CR17EE030	DINESH R

### M-IV Centum Achievers - June-July 2018

Ms.Aishwarya B R	1CR16CS031	Prof.Revathi.R
Ms.Navya C	1CR16CS101	Prof.Arti Chudasama
Ms.Nethravathi.A.S	1CR16CS104	Prof. Arti Chudasama
Mr.Aditya Kumar	1CR16IS007	Prof.Bharti Sharma



## WORLD BRIDGE CHAMPIONSHIP

Our Student Ms. Rekha B of 1st year engineering participated in 17th **World BRIDGE Championship** which was held in **Wujiang (CHINA)** from 8th to 18th August-2018 and secured 4th Place in the tournament which had participation from total of 32 countries.



**PRIYANKA SRIVASTAVA** of CSE, Invited by **Google** for speaking about the **University Innovation Fellows Program**, 20<sup>th</sup> July 2018



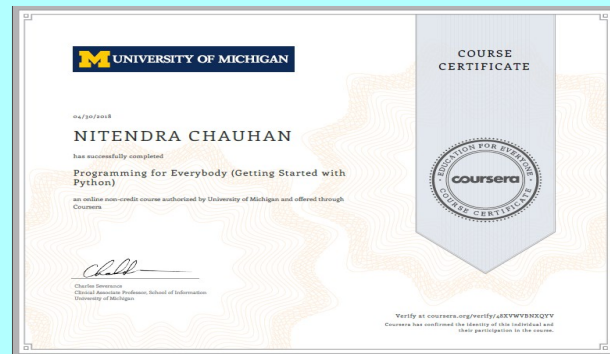
**VTU Bangalore Zone Badminton Tournament** on 27th & 28th August at SEA College Bangalore and **CMRIT Women** team Secured **Second place (Runners)** in the tournament.



**Ms.Keerthana** of 2018 Batch Attended **International Intern Leadership Conference** in Orlando,Florida from 30th July 2018 to 3rd August 2018 as a result of her Internship Performance in **Ernst & Young U.S,LLP**

## MOOC COURSE

Mr.Nitendra Singh Chauhan of 4th semester ECE has secured 97% in **“Python for Everybody”** from CourseEra.



**MUSINDE NYEMBO CHAMPION** of MCA won the **Tech-forte 2018, Best IT Manager** awarded by Mount Carmel College .

**SHASHANK S JINGADE** of ISE won Blind Art competition

**Journal & Paper Presentations** by **SHUBHAM** in **INTERNATIONAL JOURNAL OF CREATIVE RESEARCH THOUGHTS**

## FACULTY ACHIEVEMENTS

### JOURNALS AND CONFERENCES:

- Prof. Manoj Challa, "Energy Aware WSN Transmission and Network Lifetime Improvement using Particle Swarm based Distance Error Optimization" in International Journal of Applied Engineering Research.
- Reddy Anand, and Jitendranath Mungara. "Wireless Environment Aware Adaptive Scheduling Technique For Cellular Networks." Indonesian Journal of Electrical Engineering and Computer Science 11.1 (2018): 318-332.
- Priyadharshini A, "Mitigating Selfish Misbehavior Attack in MANET using SMD Algorithm", International Journal of Multidisciplinary (UGC Approved) - Volume -3/ 24- 427/2455-3085
- M. Farida Begam, "An ensemble approach for data privacy and preservation using discrete cosine and wavelet transforms", IJPAM. Volume 118/21A- 505-518/1314-3395
- Sharen, Chaithanya s s, "A survey on existing energy management scheme and a theoretical approach on smart energy management", IFERP – 2018, JEREEE
- Kashif Ahmed, IEEE Xplore Digital Library, "Optimal Cost Analysis of Off-Grid Hybrid Renewable Energy System with PV Degradation and Electrical Load Variation using Multi-Year Module and Advanced Storage Module", International Conference on Energy, Communication, Data Analytics and Soft Computing (ICECDS)
- Kashif Ahmed & SHUBHAM 1CR13EE093, "A Ground-based Multipurpose AG-RO", INTERNATIONAL JOURNAL OF CREATIVE RESEARCH THOUGHTS, NCSEM-2K18
- Dr. R Muralishankar, "Geometric power detector for spectrum sensing under symmetric alpha stable noise." Electronics Letters (2018), IET.
- Paras Nath Singh, "Privacy-Preserving selective aggregation of E-commerce data", IJSRD
- Sreelakshmi, G., Asha, M.N. and Viswanath, D., published a paper on "Investigations on Pile-Soil Interaction Using Image Analysis" in ASCE Geotechnical Special Publication 301. *PanAm Unsaturated Soils held at Dallas, Texas. (pp. 466-475)*
- Nair, A.M., Surya, V., Apoorva, R., Singh, K.G., Chandan, K. and Nidha, B.H., had a paper entitled "Harvesting Energy from Pavements". GeoShanghai International Conference (pp. 408-415). Springer, Singapore
- Kokila M S, "Going Cashless in India - Boon or Bane" in Journal of Social and Welfare Management .
- Dr. Jhansi Rani, "A Novel routing protocol for security over wireless Adhoc networks", Springer conference Proceedings "Emerging research in Electronics, computer science and technology ".
- Ms. Moumita Manna and Mrs. Pappa.M, "Automatic Screening and Optimization of Electrochemical SPR(EC-SPR) based Graphane Batteries", IJET
- Ms. Jyoti.M.R and Mr. Chetan.H, "Design and performance analysis of differential amplifier for various applications" in International Conference.

### SPORTS:

- CMRIT faculty cricket team participated state level cricket tournament conducted by SAI VIDYA college Rajankunte, Bangalore from 27th to 28th July-2018 and were semi finalist.





**ACADEMICS:**

- Prof. Shivraj, Assistant Professor, CSE acted as resource person for Mobile Application Development workshop on 8<sup>th</sup> June 2017 at CMR University.
- Dr. S. Gokula Krishnan has served as resource person, on a one day workshop on SPSS organized by T. John Institute of Management
- Divya Paul was invited as the resource person for 6-day Orientation program at Graphic Era Hill University.

**CONSULTANCY:**

- Dr. Khaled Assaleh(Interim Vice Provost for Research and Graduate Studies) sanctioned consultancy work to Dr. Nasir Abdul Quadir on Chip-Level Implementation of Multichannel Digital Radar Receiver.

**FUTURE ACTIVITIES PLANNED**

	ACTIVITY PLANNED	DEPT	Month
1	Guest Lecture by Mr. Kamalanjan Kokolu, Cognizant Technology Solutions	ISE	September
2	Guest Lecture by Mr. Tilak Raj S, Eurofins, Bengaluru	ISE	October
3	Guest Lecture by Mr. George Abraham, Deputy GM, L&T Construction, Bengaluru	CIVIL	September
4	Guest Lecture by Mr. Prakash Srinivasan, RMC India	CIVIL	October
5	Guest Lecture on Machine Learning by Mr. Raghavendra Desai, Application Developer, INTEL	CSE	September
6	Guest Lecture on Malware Analysis by Monnappa K A, Information Security Investigator, CISCO	CSE	October
7	Industrial Visit to Toyota, Bidadi	ME	September
8	Guest Lecture on CFD	ME	October
9	Extempore	EEE	September
10	Hands-On Session on Machine Learning by Mr.Parshwanath, Alumnus	ECE	September
11	Guest Lecture on VLSI by Mr. Manikandan, AQUATECH	ECE	October
12	Industrial Visit to BSNL, Mysore	TCE	September
13	Arduino Workshop	TCE	October
14	Industrial Visit to Codilar Technologies	MCA	September
15	Guest Lecture on Importance of Virtual Machine and Virtualbox	MCA	October
16	Guest Lecture on Mechanical Properties of Nanostructures by Dr. Vijay, Materials Scientist, NAL Bengaluru	BS	September
17	Guest Lecture on The Bridge between Mathematics and Engineering by Prof.Sankar, Presidency University	BS	September
18	Display of Mini Projects	AE	November
19	Session on Personal Tax Planning by Mr.Lakshmeesh, CFO.	IQAC	September
20	Session on Stress Management and mind control	IQAC	October
21	Counseling on Studying Abroad by P.N.Santhosh, Gold Medalist, Anna University	EE&C	September
22	Workshop on Financial Literacy	PBC	September
23	e-YANTRA workshop by IIT-M Sponsored by MHRD under the NME through ICT program	PBC	October

# STUDENT COUNCIL



Sophia  
Literary Secretary



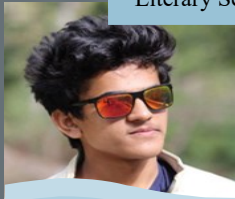
Pradhan Vignesh Gowda J  
President



Pranamya  
Secretary



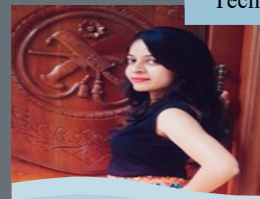
Chandrama  
Technical Secretary



Sanjay B Kashyap  
Literary Secretary



Shwetha Sathish  
Literary Secretary



Lekhana  
Technical Secretary



Abhishek  
Technical Secretary



Mageshwari.K  
Placements



Kushal M  
Cultural Secretary



Mahesh J  
Cultural Secretary



Nikhil B K  
Hostel Secretary



Vaisakh M  
Placements



Suraj Reddy  
Placements



Shrikesh  
Cultural Secretary



Monogna  
Hostel Secretary



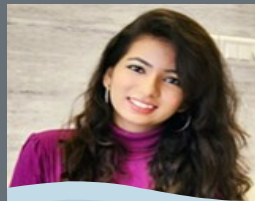
Vinutha S Hanchate  
Hostel Secretary



Shravani B  
Sports Secretary



Sai Sunil  
Sports Secretary



Sakshi Jaiswal  
Public Relations



Vishal R  
Hostel Secretary



**YASHWANTH**  
TREASURER



*Kedar K  
Rao*  
Vice  
President



*Utsav  
Haldar,*  
PRESIDENT



*Sagar  
Datta,*  
CHAIRMAN  
BOARD OF  
advisors



*Abraar  
Syed.*  
SECRETARY



**ROSHANJIT  
KAR BHOWNIK**  
DIRECTOR AR



**CHANDRASEKHAR**  
DIRECTOR AR



*Manjunath  
—D.—*  
Director



*Sneha  
REDDY.*  
DIRECTOR AR



**KAPIL.**  
DIRECTOR AR



**ARJUN.**  
DIRECTOR AR



**KEERTHANA  
ASHOK.**  
DIRECTOR AR

# ALUMNI ASSOCIATION



