

INFO-RISES

Volume 2, Jan-May 2018

Department of Information Science & Engineering



CMR INSTITUTE OF TECHNOLOGY

ACCREDITED WITH
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DEPARTMENT OF INFORMATION SCIENCE & ENGINEERING

INSIDE THIS ISSUE:

CLUB ACTIVITIES	3
INDUSTRY	
CONNECT & ALUMNI MEET	4
NEW INITIATIVES	5
PROJECTS	6-7
FACULTY ACHIEVEMENTS & EVENTS	7-8
ORGANIZED STUDENT AWARDS & RECOGNITIONS	9-12
PLACEMENTS	13

INFO-RISES

2017-2018



Dr. Sanjay Jain
Principal

DEPARTMENT VISION

“To empower our students with necessary domain knowledge and professional skills in information technology for a global career to serve the society.”



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

DEPARTMENT MISSION

- *To build a faculty team with industry and academic exposure, capable of empowering and equipping students with necessary domain knowledge.*
- *To prepare the students for a global career in computing by enriching the curriculum with a blend of theory and practice.*
- *To develop industry relevant technical and communication skills with cross-cultural sensitivity through training programs, vibrant student clubs and student internships.*
- *To engage with industry and institutes of repute and collaborate in academics, research and development involving faculty and students.*

MESSAGE FROM HOD



It is a great pleasure to bring out to you the recent updates in the department during the last 5 months through this department newsletter. This endeavour is the result of relentless efforts put in by a dedicated team of our students and staffs. This newsletter offers a platform for showcasing our activities and sharing the journey of our department. We impart quality engineering education through sound theoretical knowledge, hands-on laboratory as well as computational skill and exposure to recent technologies via expert lectures and industry-connected activities. We take this opportunity to showcase the highlights and the best achievements of our students and staffs in various technical and non-technical activities. This newsletter is an attempt to keep our honoured stakeholders up to date with the recent accomplishments of the department and keep ourselves aligned with our vision.

-Prof. Prem Kumar Ramesh
HoD, Dept. of ISE

MESSAGE FROM PROGRAM CO-ORDINATOR



It gives me immense pleasure to present the latest volume of Info-Rises. This NEWSLETTER is a platform for budding engineers and faculty to showcase their talent in Science, technology and Arts. It will be able to capture all the exciting activities and initiatives being done at Department during the last five months (Jan to May 2018). It is a treasure trove of knowledge and learning. It illustrates the artistic expressions of the students and provides them with a platform to commemorate their talents and excellence. I would like to congratulate the Editorial team for this wonderful creation.

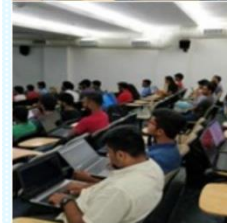
All the Best!!

-Prof. Manoj Challa
Program Co-Ordinator, Dept of ISE

Club Activities



S.L No	Club Name	Program Name	Date
1	CODECHEF	24hr Hackathon (Tourism domain) - CMRITHACKS	05.05.2018 - 06.05.2018
2	FSMK	Open Mic Discussion on “Talk out Loud: Internet should be open or not?”	27.04.2018
3	FSMK	IoT Session on “Introduction to freedom Hardware”	21.04.2018 - 22.04.2018
4	FSMK	Panel Discussion on “Open Software”	20.04.2018
5	RISE	Hands-on Session on PHP and MySQL	20.04.2018
6	GOOGLE DSC	Workshop on Web Development using HTML5 and CSS3	29.03.2018
7	RISE	Beginner’s Coding Contest	26.03.2018
8	RISE	Tech Quiz	19.03.2018
9	CODECHEF	“CMRIT Codes” and “CMRIT Codes 2.0”	12.02.2018 & 28.02.2018
10	CODECHEF	Open Programming Session	21.02.18
11	RISE	Expert Lecture on “MIT App Inventor”	19.02.18
12	RISE	Expert Lecture on “Web designing basics”	08.02.18
13	GOOGLE DSC	Community Session Workshop on “Java Fundamentals”	04.02.18



Industry Connect

- Workshop on “**Arduino Programming basics with toolkit and DTH sensor**” by Glisten Project Solutions Pvt. Ltd, from 10.02.2018 - 11.02.2018.
- Seminar on “**SAS Programming**” by Cyntel, Bangalore on 21.02.2018.
- Seminar on “**SAS Programming**” by Cyntel, Bangalore on 21.02.2018.
- Technical Talk on “**SAP Automation Tools**” by SAP, Amazon, on 19.03.2018.
- Seminar on “**Higher Studies**” by Planet Education on 07.03.2018.



INDUSTRIAL VISITS

Students of 6th Sem were taken on an Industrial Visit to HAL, Bangalore on 19.02.2018.

Students of 4th Sem were taken on an Industrial Visit to ISRO Satellite Centre, Bangalore, on 14.02.2018.



Alumni Meet

An Alumni Meet was held on February 24, 2018. The event began with the welcome speech which was addressed by **Dr. Sanjay Jain, Principal, CMRIT**.

He announced the formation of an Alumni Association Body. The Alumni Technology in-charge is **Mr. Abrar Syed**, an Information Science graduate of the 2016 batch and the Department in-charge is **Ms. Sneha Reddy**, an Information Science graduate of the 2017 batch.

After his address to those gathered, the alumni members gave a motivational talk to the undergraduates. This was followed by interaction with the ISE department faculty.

The alumni's interaction with the students was remarkable as they gave some tips and suggestions on resume building, expectations of a company and explained the significance of mini projects and PREPARE programme in the placement process. A delicious lunch was served for all the alumni members at the end of the alumni meet.



NEW INITIATIVES

Faculty Tech Talk

Every faculty in the department has given a tech-talk on latest trends, software tools and research focused topics related to ISE.



MOOC Courses

13 Faculty members have completed their MOOC courses.

130 Students have completed their MOOC courses.

Teaching Pedagogies

All faculty members have initiated **flipped classroom concept** and **video sessions** in their teaching.

Prof. Priyadharshini has implemented **Role play, Quiz and Think-Pair and share** activities in her teaching.



Mentoring Survey

To enhance the mentoring process, a survey has been conducted for all students. The main focus of the survey is on

- Academic
- Laboratory
- Co-curricular activities
- Personal
- Any Other concerns

Based on the response, the students have been segregated into three categories such as

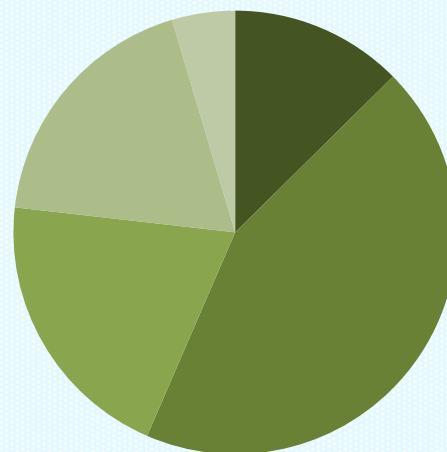
1. Students having no issue
2. Mentor can handle
3. Students need counseling

Counseling sessions were arranged for students under 3rd category with the counselor. It has been found that there are significant improvements in the students who went for counseling.

All the faculty members have regular follow ups with the students under the 2nd category.

Sample Mentoring Survey Response

How much confident you are in technical knowledge (core subjects)?



- No issues at all (perfectly fine)
- Few issues that I can handle myself
- Some issues, but someone is helping
- Some issues, need some help
- No idea where I am going with this (definitely need guidance)

Projects

Best Mini-Projects

4th Sem

First Prize: Tile Cost Calculation Algorithm



Second Prize: Tourist Guide App



Consolation prize: Water level controller



Students of 4th Semester and 6th semester ISE have taken up 3 mini projects relevant to their semester subjects as well as real world problems.

6th Sem

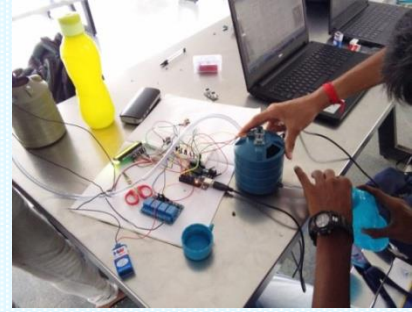
First Prize: Number Plate Detection System



Second Prize: Movie Success Prediction



Consolation prize: Web RTC Implementation



Best Projects (Final Year)

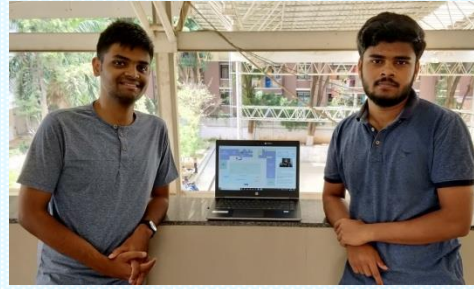
1. Disease Prediction by Machine Learning over Big Data from Healthcare Communities.
2. Home automation using Image processing & IOT
3. iHelp
4. Smart energy meter



Disease Prediction



Home Automation



iHelp



Smart Energy Meter

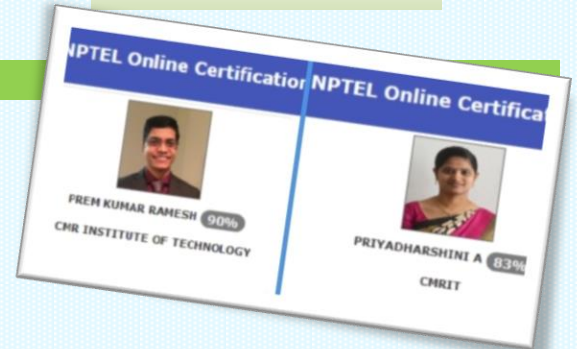
Faculty Achievements



- Prof. Manoj Challa and Prof. Anand received the Bronze Award for “Inspire Faculty Partnership Level 2018” by Infosys.



- Dr. Prem Kumar Ramesh won the Third prize for the PoC work “Ontology based Resource Management for IoT deployed with SDDC” in IEEE Pre Conference, 7th April 2018.



NPTEL TOPPERS

- Prof. Prem Kumar Ramesh** has secured **Top1%** in Patent Law for Engineers and Scientists conducted by NPTEL.
- Prof. Priyadarshini. A** has secured **Top 5%** in Cryptography and Network Security conducted by NPTEL.

PUBLICATIONS

- Prof. Manoj Challa** has published a paper titled “Energy aware WSN transmission and network lifetime improvement using particle swarm based distance error optimization” in IJAER (UGC approved & Scopus indexed) - May 2018.
- Prof. D. Sudha** has presented a paper on An Adaptive Cloud Resource Re-Configurability Algorithm for Energy and Performance Balancing in ICTRCET on 17/05/2018.
- Prof. Priyadarshini. A** has published a paper titled “IAACK- Intrusion Detection System for MANETs” in International Journal of Multidisciplinary (UGC approved) - Jan 2018.
- Prof. Priyanka R** has published a paper titled “Security Attacks, challenges and Mechanisms for security in Wireless Sensor Network: A survey” in International Journal of Multidisciplinary (UGC approved) - Jan 2018.

Events Organized

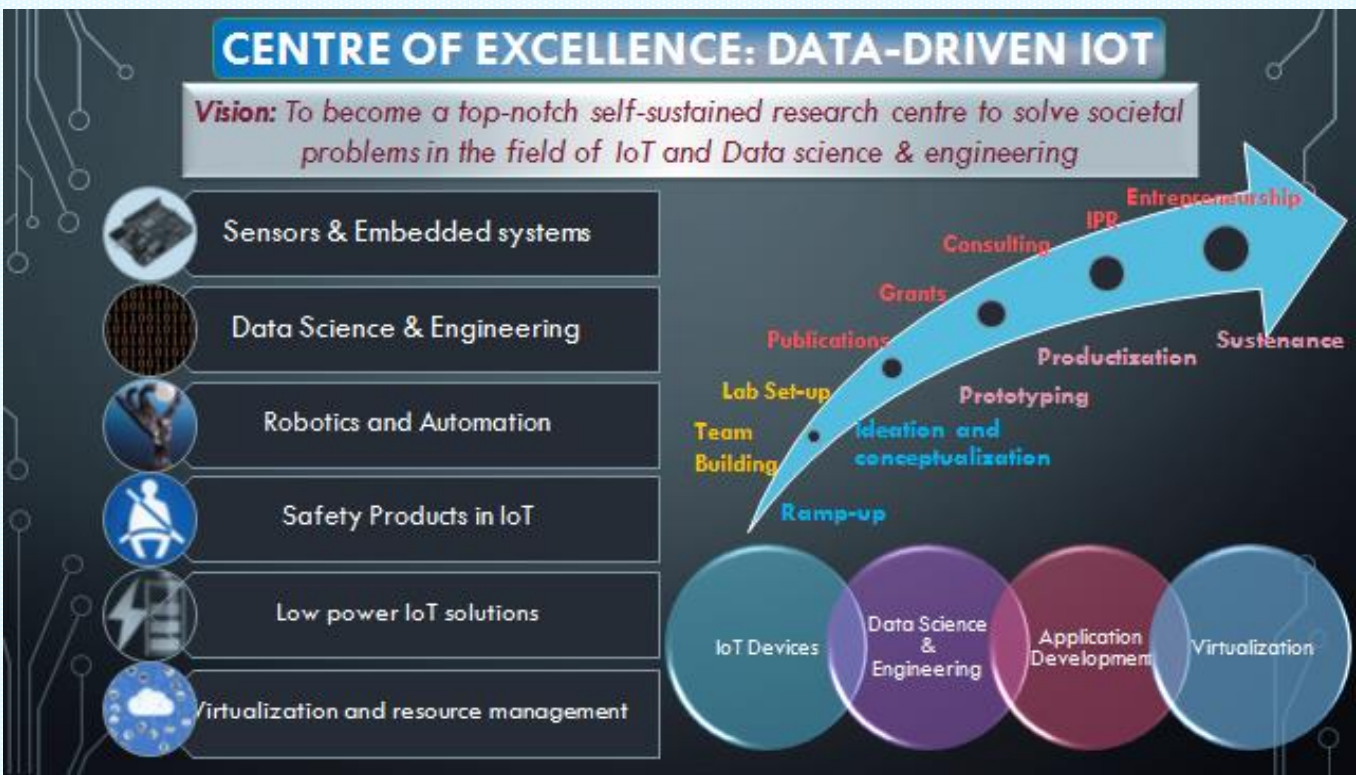
FDP ORGANIZED

Prof. Priyadarshini organized a 6 days FDP on **Mobile Application Development** from 1st to 6th Jan, 2018.



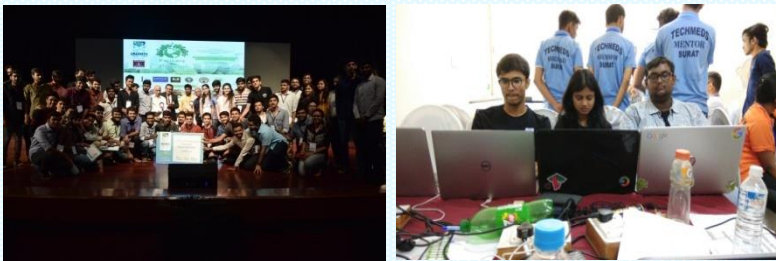
PLACEMENT SESSION ORGANIZED

Prof. Manoj Challa organized a **Python and DBMS Programming Skills Session** for all the 2nd year students at CMRIT.



Student Awards

- Riya Regi (6thSem ISE) presented a paper on “Remote monitoring of water level in industrial storage tanks using NB-IOT” at **ICCICT-2018**.
- Shwetha Satish & Swapna Amarnath (4thSem ISE) secured **1st prize** in “Pictionary” event held during **CULTURA 18** at CMRIT.
- Shrikesh Suresh (4thSem ISE)- **1st prize** in **Mad-Ads competition** held at **PESIT South Campus**.
- S S Monish & Shobhit Kushwaha (4thSem ISE) - **1st prize** under Projects category in **Srishti - 2018** for their project “Travel Sensei”.



Isha Agarwal, 3rd year student, participated as the Campus Ambassador for UNMAAD 2018, organized by IIM.

Kaveri M N, 3rd year student, won VESPA SXL worth Rs 1 lakh 6 thousand from Multi-level marketing on January 2018



- 3rd year students Mohammad Faraz, Akshat Kumar Singh, Bharath V K and Chethan Kumar V participated in the **Smart India Hackathon - 2018**, which was organized by Government of India and AICTE on March 30th and 31st.



SPORTS ACHIEVEMENTS

- The ISE Department emerged as the winners in the Inter-Department Cricket Tournament held at CMRIT.
- Hitaish G.L, student of 6th Semester ISE, secured **1st prize** in **Shuttler (Doubles)** and the **2nd prize** in **Shuttler (Singles)** conducted by Symbiosis Institute of Business Management during “REVELATION 18”.



- Saurav Praveen, student of 4thSemester ISE, won **1st prize** in “Counter strike Gaming event” held at the Dept of MCA, CMRIT.
- Sai Sunil K R, student of 4th Semester ISE, was a part of the team that won the **Runners-up prize** in the **Inter Collegiate Zonal Tournament** (Feb 26th - March 6th) organized by VTU, the **Devdar Christ Cricket Tournament** (April 19th – April 26th) held at Christ University, Kengeri and the **Intercollegiate Cricket Tournament** (May 2nd - May 5th) organized by University Visvesvaraya College of Engineering.

STUDENT ACHIEVEMENTS



Anoop C J of 8th Semester ISE, Lead for Google Developer Student Club (DSC) was one of the speakers in Google Developer Program Lightning Talks during Google Developer Days India which featured a lineup of talks given by both Googlers and the developer community on a wide range of Google products. He was also invited for the DSC Summit at Goa.



Global Google Developer Group (GDG) Summit 2018

At the Global Google Developer Group (GDG) Summit 2018, Anoop C J invited as a speaker to represent the DSC program in India, where he represented DSC-India and DSC-CMRIT in front of audience from 99 countries.



Google I/O 2018

Anoop C J was one among the 5 who were selected for Google I/O 2018 out of the 184 DSC Leads in India.

Academic Toppers



7th Sem – Kavya S
(1CR14IS043)
79.78%



5th Sem – Dhruva Vatsa Mishra
(1CR15IS025)
75.11%



3rd Sem – Aditya Kumar
(1CR16IS007)
82.5%

SEM	PASS %
7	92.55%
5	90.48%
3	80%

NPTEL CERTIFICATIONS

- Six students of 6th semester ISE – Yamini U (78%), Vardhini B (70%), Shreyas N Das (69%), Thankam Paul (68%), Taha Sufiyan (68%) and Lakshmi Girija Mangipudi (57%) and three students of 4th semester ISE – Sakshi Sinha (56%), Ravish Raj(47%) and Raj Rohan (45%) received NPTEL certificates on completion of MOOC course on “**Cloud Computing**”.
- Ten students of 4th semester ISE – Nandini G A (70%), Aayush Kumar (66%), Aditya Kumar (60%), Rohit Ranu (60%), Nandini R (60%), Monisha M L (57%), Prajwal (56%), Shree Charan B G (55%), Omen Pooniwala (52%) and Maruthi C N (42%) received NPTEL certificates on completion of MOOC course on “**Introduction to Modern Application Development**”.
- Rajat Shukla (76%) of 6th semester ISE received an NPTEL certificate on completion of MOOC course on “**Data Mining**”.
- Swapneel Chakraborty (68%) of 4th semester ISE received an NPTEL certificate on completion of MOOC course on “**Database Management System**”.



<CMRITHACKS/>

For the first time in the history of CMRIT, a 24-hour Hackathon was organized and conducted by the Codechef club, Dept. of ISE, from May 5th 5pm to May 6th 5pm 2018. The event was inaugurated by Dr. Sanjay Jain, Principal, CMRIT. There were 12 teams, each consisting of a size of three, that had participants from various engineering colleges in Bengaluru.

The theme was to develop software for “Tourism Sector”. Dr. Phani Kumar Pullela, Professor, CMRIT gave his valuable inputs for all the participants during the event.

We had two judges namely Mr. Nikkhil. D, Team Lead, Amadeus Software Labs, Bengaluru and Mr. Abraar Syed, Alumni, CMRIT. We also had two eminent persons from CMRIT - Dr. B Narasimha Murthy, Vice Principal and Mr. Manoj Challa, Program Coordinator, at the event, for giving away the prizes. The first prize was awarded to MSRIT, whereas the second prize was secured by CMRIT.



Placements

The following companies have visited our department.



THOMSON REUTERS



UNIVERSAL HUNT



Newsletter Editors:
Ms. Priyadarshini A
Mrs. Dhanya Viswanath