INFO-RISES

Volume 4, Jan-May 2019
Department of Information Science & Engineering

CMRIT
CMR INSTITUTE OF TECHNOLOGY, BENGALURU.
ACCREDITED WITH A+ GRADE BY NAAC

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DEPARTMENT OF INFORMATION SCIENCE & ENGINEERING

INFO-RISES   EVEN-2018-2019

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."
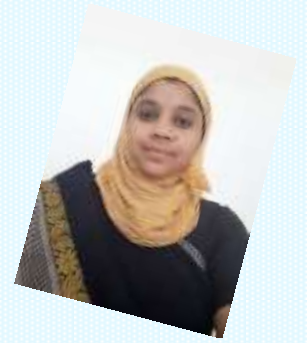
Prof. B Narasimha Murthy
Vice-Principal

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 pen this message for our department newsletter which contains information about what events have happened, what are the achievements of students and faculty in the department. These kinds of reports help all the stakeholders to be self-motivated, encourage participating in various events, and competitions. Apart from teaching-learning processes, Guest lectures, workshops, Conferences and competitions are being conducted and our students are participating and winning accolades. This helps the students to hone their skills in the latest technologies and produce valuable outcomes. Our ISE team strives to bring out the students' strength and mentors in such a way that students are grown as a holistic personality. This newsletter communicates the good things happening in the department to set up a positive and vibrant environment among us. I take this opportunity to pass my sincere gratitude to the students and the faculty who brings out the department in the lime light. I wish you all Good Success!!!

-**Dr. M Farida Begam**

HoD, Dept. of ISE

Club Activities

S. No	Club Name	Program Name	Date
1	CODECHEF	60 Days Coding Challenge	19-01-2019
2	RISE	Technical Topics	01-03-2019
3	GLUG/FSMK	Design Thinking - UI Design	16-03-2019
4	GLUG/FSMK	Micromanagement - Managerial skill development	20-03-2019
5	GLUG/FSMK	Introduction to free software - Booting OS	08-04-2019
6	RISE	CodeSwap - Coding Competition	08-04-2019
7	Google DSC	Progressive Web Apps - Web Applications	08-04-2019
8	Google DSC	Progressive Web Apps - Web Applications	26-04-2019
9	RISE	What happens in a Hackathon	04-05-2019
10	CODECHEF	5 days Online Coding Quiz	03-05-2019
11	CODECHEF	CMR COdes 4.0	08-05-2019

Industry Connect

- Expert Lecture on "Basics of IoT with Industry use cases" by Mr. S Balachandar, Application development Head , Shell India Pvt Ltd, Bangalore on 09.02.2019.

INDUSTRIAL VISITS

Students of 5th Sem were taken on

an Industrial Visit to Shell India Pvt

Ltd, Bangalore on 09.02.2019.

.   NEW INITIATIVES

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.

Prof. Anand has implemented **Google Classroom** in this teaching.

Faculty Tech Talk

Faculty members in the department have given a tech-talk on latest trends, software tools and research focused topics related to ISE.

SL. No	Faculty Name	Tech Talk Topic
1	Mr. Sudhakar K N	Version Control with Git
2	Mr. Anand R	Yii framework in php
3	Mrs. Geetha S	Security issues on sensor cloud
4	Farida Begam Mohamed Hussain	Semantic Web-Introduction to Prodege
5	Prasad B S	Natural Language Tool Kit

MOOC Courses

17 Faculty members have completed their MOOC courses.

111 Students have completed their MOOC courses.

NCBICS-2019

National Conference on Big Data, Internet of Things Cloud and Security

Key Note Speakers:

1. Dr. Anjaneyulu Pasala, Principal Research Scientist – Infosys, Bangalore
2. Mr. Kaarthik Sivakumar - Principal Engineer – Cisco, Bangalore

The aim of this conference is to motivate the research activities of the student, faculty and Industry personnel and to excel their research skill set. The Conference will give a platform to exhibit their research work and to leverage their technical talents to the outside world. It will also give them a forum to discuss and improve their knowledge to the next level by the guidance of experts in the areas of Big Data, Internet of Things, Cloud, Security and Advance Computing Technologies that enhances the Research works into a new dimensions.

Best Mini Projects

4th Sem

First Prize: Robotic Dog

Second Prize: Virtual Assistant Using Python

Third Prize: Interfacing GSM module with Arduino

6th Sem

First Prize: Flickzar +Edu

Second Prize: Raspberry pi based NAS

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.

Third prize: Dapp - Voting Application using Blockchain

FACULTY PUBLICATIONS

- Mr. Sudhakar K N has published a title "PEAR—Protocol for Energy Aware Routing with Security in Wireless Sensor Networks" in Journal of Computational and Theoretical Nanoscience on Jan 2019

- Mrs.Geetha S has published a title " Enhanced Energy in Sensors by Avoiding Voids and Saving Sensitive Data on Cloud Using B+ Tree Index with Retrieval of Query Predicates" in Mobile networks and applications on Jan 2019.

- Dr. Chinnaiyan has published a title " Reliable AI Based Small Sensors for Managing Irrigation Resources in Agriculture – a review" in International Conference on Computer Networks and Communication Technologies. Lecture Notes on Data Engineering and Communications Technologies, vol 15. Springer, Singapore on Jan 2019

- Dr. Chinnaiyan has published a title " Centralized Reliability and Security Management of Data in Internet ofThings (IoT) with Rule Builder " in International Conference on Computer Networks and Communication Technologies. Lecture Notes on Data Engineering and Communications Technologies, vol 15. Springer, Singapore on Jan 2019

- Dr. Chinnaiyan has published a title " Reliable Digital Twin for Connected Footballer " in International Conference on Computer Networks and Communication Technologies. Lecture Notes on Data Engineering and Communications Technologies, vol 15. Springer, Singapore on Jan 2019

- Dr. Farida Begam Mohamed Hussain has presented a title " Software Bug Prediction using Supervised Machine Learning Algorithms" in International Conference at Christ University.

- Dr.R.Chinnaiyan, has published a title "Envisagation and Analysis of Mosquito Borne Fevers: A Health Monitoring System by Envisagative Computing using Big Data Analytics" , International Conference on Computer Networks, Big Data and IoT (ICCBI 2018) 19, 20 December 2018, Recommended for Publication in Springer- Lecture Notes on Data Engineering and Communications Technologies.

SL. No	Faculty Name	Program Name	Venue	Date
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SL. No	Faculty Name	Program Name	Venue	Date
1	Mr. Sateesh A	Teacher Less Teaching - An Adaptive Technology Platform	Future of Learning Conference 2019, Learning 4.0 organized by IITB & IIMB	04-01-2019
2	Mr. Sateesh A	ISchool - Open Innovative School In a Society	Future of Learning Conference 2019, Learning 4.0 organized by IITB & IIMB	04-01-2019
3	Mrs. Dhanya Viswanath	Modeling Light-Matter Interactions for Photonics Applications	IEEE Spectrum Webinar	17-01-2019
4	Mrs. Dhanya Viswanath	Understanding Stimulated Brillouin Scattering with a Multiphysics Approach in COMSOL	IEEE Spectrum Webinar	17-01-2019
5	Mrs. Dhanya Viswanath	Unpacking the Internet of Things	Online Course - Udemy	17-01-2019
6	Mrs. Vidya U	Research Insight and Publication Ethics (RIPE)	CMRIT	19-01-2019
7	Ms. Sheetal R	Lex based FEP	Infosys	07 Jan -11th Jan 2019
8	Mrs. Vaishali M Deshmukh	Big Data Analytics workshop	New Horizon College of Engineering	21st Jan 2019 to 25th Jan 2019
9	Ms. Priyadharshini A	Make learning visible in your classroom	Edweb.net Webinar	24th Jan 2019
10	Mr. Sateesh	Future of Learning Conference 2019, Learning 4.0	IITB - IIMB	4th-5th Jan 2019
11	Mrs. Anu Jose	Cloud Computing: Taking Advantage of the Latest Technologies	Edweb.net Webinar	3rd Jan 2019
12	Dr. Chinnaiyan	IoT based Reliable Real Time Disease Monitoring of Poultary Farming Imagery Analytics	ICCBI 2018 - Springer, Madurai	19th-20th Jan 2019
13	Dr. Chinnaiyan	IICI 2018	IETE & C-DAC	12th-13th Dec 2018

WORKSHOPS AND FDPs ATTENDED BY FACULTY

14	Mrs. Anu Jose	Compiler Design	Amal Jyothi Engineering College,Kerala	17th- 21st Dec 2019
15	Mr. Prasad B S	Teaching and Learning with MATLAB and Simulink	MathWorks, Webinar-Online	21st Feb 2019
16	Mrs. Vaishali Mahesh Deshmukh	Digital Image Processing using Matlab	Digital Image Processing using Matlab	11th-13th Feb 2019
17	Mrs. Dhanya Viswanath	Blockchain Basics	LinkedIn Learning Webinar	13th Feb 2019
18	Mrs. Dhanya Viswanath	Simulating a Medical Device Interaction with a Biological System	IEEE Spectrum Webinar	22nd feb 2019
19	Mrs. Vidya U	IoT Workshop with Hands on Learning	Dept. of TCE, CMRIT	21st-22nd Feb 2019
20	Dr. Chinnaiyan	IOTShow and IEW 2019	KTPO White_led, EFYGRP	26th-27th Feb 2019
21	Ms. Priyadharshini A	Digital Image Processing using Matlab	Dept of TCE, CMRIT	11th-13th Feb 2019
22	Mrs. Anu Jose	Internet of Things using Raspberry Pi	Dept. of ISE, CMRIT	21st to 22nd Feb 2019
23	Mr. Lohithraj SN	Internet of Things using Raspberry Pi	Dept. of ISE, CMRIT	21st to 22nd Feb 2019
24	Mrs. Vaishali Mahesh Deshmukh	Internet of Things using Raspberry Pi	Dept. of ISE, CMRIT	21st to 22nd Feb 2019
25	Ms.Prasad B S	Internet of Things using Raspberry Pi	Dept. of ISE, CMRIT	21st to 22nd Feb 2019
26	Ms.Priyadharshini A	Internet of Things using Raspberry Pi	Dept. of ISE, CMRIT	21st to 22nd Feb 2019
27	Ms. Sheetal R	Internet of Things using Raspberry Pi	Dept. of ISE, CMRIT	21st to 22nd Feb 2019
28	Mrs. Geetha S	Internet of Things using Raspberry Pi	Dept. of ISE, CMRIT	21st to 22nd Feb 2019
29	Dr. Farida Begam Mohamed Hussain	FDP on Digital Technologies	Tata Consultancy Sevices, White Field	18th-19th March 2019
30	Mrs. Deepa Anand	Guest Lecture on Learning in the digital age	SOET-CMRU	14th March 2019
31	Dr. Chinnaiyan	Guest Lecture on Learning in the	SOET-CMRU	14th March

				2019
32	Ms.Prasad B S	Guest Lecture on Learning in the digital age	SOET-CMRU	14th March 2019
33	Mrs. Vaishali Mahesh Deshmukh	Machine Learning Algorithms	CMRIT	12th March 2019
34	Ms.Priyadharshini A	Machine Learning Algorithms	CMRIT	12th March 2019
35	Ms.Priyadharshini A	Hidden Triggers for College and Career Success	Online Webinar	17th March 2019
36	Dr. Farida Begam Mohamed Hussain	Machine Learning, Digital Transformation	VMWare - WomenWhoCode Connect India 2019	29th March 2019
37	Mrs. Vidya U	Research Methodology	Research Methodology and IEEE AuthorshipLab	13th-14th April 2019
38	Mrs. Shilpa Mangesh Pande	Workshop on Big Data Hadoop & Spark	Dept. of CSE, CMRIT	16-05-2019
39	Mr. Lohithraj SN	Workshop on Big Data Hadoop & Spark	Dept. of CSE, CMRIT	16-05-2019
40	Sateeshkumar Ambesang	Workshop on Big Data Hadoop & Spark	Dept. of CSE, CMRIT	16-05-2019

Patents			
Faculty Name	Patent Name	Organization	Date
Dr. Chinnaiyan	System and Method for Real Time Disease Monitoring of Poultry Farming Using Internet of Things and Imagery Analytics	Indian Patents	06-12-2018
Dr. Chinnaiyan	System and Method for Reliable Data Aggregation By Wireless Sensor Nodes in Maize Field	Indian Patents	06-12-2018

FACULTY AWARDS

Swathi Y has received Service Award for serving 10 years in CMRIT

Deepa Anand has received Service Award for serving 5 years in CMRIT

FREE MEDICAL CAMP AT MARASANDRA VILLAGE ON 09-02-2019

WORKSHOP ORGANIZED

- **2 days Workshop on "Machine Learning Algorithms" from 13th to 25th March 2019.**
- **Guest Lecture by Mr. S Balachandar, Application development Head on Basics of IoT with Industry use cases 09-02-2019**
- **2 days Workshop on Internet of Things using Raspberry Pi from 21st-22nd Feb 2019.**
- **One day Workshop on Machine Learning Algorithms on 13th March 2019.**

SL. No	Student Name	Program Name	Venue	Date
	WORKSHOPS AND FDPs ATTENDED BY Students			
1	GURU PRASAD R (1CR17IS030)	Internet of Things using Raspberry Pi	Dept. of ISE,CMRIT	21st to 22nd Feb 2019
2	AKASH (1CR17IS007	Internet of Things using Raspberry Pi	Dept. of ISE,CMRIT	21st to 22nd Feb 2019
3	ARUNA A S (1CR17IS014),	Internet of Things using Raspberry Pi	Dept. of ISE,CMRIT	21st to 22nd Feb 2019
4	DEEKSHA S (1CR17IS022)	Internet of Things using Raspberry Pi	Dept. of ISE,CMRIT	21st to 22nd Feb 2019
5	HARSHITHA L (1CR17IS038)	Internet of Things using Raspberry Pi	Dept. of ISE,CMRIT	21st to 22nd Feb 2019
6	Harshitha.N (1CR17IS039)	Internet of Things using Raspberry Pi	Dept. of ISE,CMRIT	21st to 22nd Feb 2019
7	AMULYA J R (1CR17IS010)	Coding & Presentation skills from Hackerrank	Goldman Sachs, Bangalore	23rd Feb 2019
8	HARI PRANAV A (1CR17IS033)	India Electronics Week - Exhibition on IoT	KTPO Bangalore	28th Feb 2019
9	RAJ ROHAN (1CR16IS078)	Hackathon	CMRIT	24-02-2019
10	RAVISH RAJ (1CR16IS081)	Hackathon	CMRIT	24-02-2019
11	Sakshi Anand (1CR16IS090)	Hackathon	CMRIT	24-02-2019
12	SAKSHI SINHA (1CR16IS091)	Hackathon	CMRIT	24-02-2019
13	Shwetha Satish (1CR16IS106)	Hackathon	CMRIT	24-02-2019
14	GURU PRASAD R (1CR17IS030)	Design Thinking Workshop	CMRIT	18-03-2019
15	HARI PRANAV A (1CR17IS033)	Design Thinking Workshop	CMRIT	18-03-2019
16	UMESH R WARRIER (1CR17IS105)	India National Youth Leadership Conference 2019	AIESEC	29th Feb -3rd March 2019
17	HABIBA AHMED (1CR17IS032)	Machine Learning, Digital Transformation	VMWare - Women Who Code Connect India 2019	29th March 2019
18	SIRI H A (1CR17IS090)	Machine Learning, Digital	VMWare - WomenWhoC	29th March 2019

		Transformation	ode Connect India 2019	
19	PRANAV POLEPAKA (1CR16IS069)	UDBHAV'19 - Western Acoustics Solo	UDBHAV'19	27-04-2019
20	PRAJWAL (1CR16IS067)	IBM Seminar on OpenPOWER and AI	**IBM**	12-04-2019
21	KUMARESHAN SUBRAMANIYAN (1CR16IS048	Datascience hands -on with Open Source - Cognitive Classes IBM Initiative	CROSSINDIA	06-04-2019
22	KUMARESHAN SUBRAMANIYAN (1CR16IS048	Introduction to Data Sciences - Cognitive Classes IBM Initiative	CROSSINDIA	21-03-2019
23	KUMARESHAN SUBRAMANIYAN (1CR16IS048	SQL and Relational Databases Workshop	CROSSINDIA	25-03-2019
24	DARSHAN C.V (1CR16IS027)	Seminar on OpenPower & AI	**IBM**	12-04-2019

TYL – R PROGRAMMING

Training sessions on **R Programming** were taken by Dr. R Chinnaiyan as part of the TYL programme for the students of 4th semester across all the branches. 73 students were eligible for TYL certificate out of 87 attended students (83%).

Training sessions on multiple streams were conducted for 6th Semester students with an aim of 9Lakh median package. The sessions included the following :

1. Data structures Basics and Advanced
2. Basics and Advanced algorithms
3. Full Stack developer
4. Data Science with Python
5. Data Science with R

Data structure was handled by Prof. Vidya and Prof. AnuJose, Basics and Advanced algorithm by Dr Deepa Anand, Full Stack development by Mr. Sudhakar, Mr. Anand, Ms. Sheetal, Mrs.Akhilaa. Data Science with python was handled by Dr. Deepa Anand, Dr. Farida, Mrs. Vaishali Deshmukh and Data Science with R was handled by Dr. Chinnayan and Ms. Akhilaa

Student Awards

STUDENT ACHIEVEMENTS

M JAGAPREETHAA has Won Hosur Natyanjali award event conducted by Sri Kalyana Kamakshi Amman Temple Navarathiri Sabha.

Rs 1,00,000/- Won First Prize in Smart India Hackathon 2019.
ADITI SHARMA (1CR15IS005), ASHWINI BOYITE P (1CR15IS013), DHRUV VATSA MISHRA (1CR15IS025),
GAUTAM CHAUHAN (1CR15IS029)

VEDANT BARBHAYA ,VIRAJ PATEL ,VISHAL KUNDAR had received Second Prize in R Programming TYL Hackathon at CMRIT

Hari Pranav A won the Quiz conducted by Barcamp Bangalore on 26.02.2019 and awarded by Coyote Consultants LLP.

Hari Pranav A won the Won 2nd Prize of Rs 5000 in Dora Hacks Hackathon

ODD Semester results	
Sem	Result Percentage
3rd sem	82.24%
5th Sem	81.82%
7th sem	95.26%

DARSHAN C.V (1CR16IS027), **GANESH SWAROOP V** (1CR16IS033), **KISHORE.S** (1CR16IS041), **KUMARESHAN SUBRAMANIYAN** (1CR16IS048), **R.Jayendran (1CR16IS077)**, have won the First Prize Workshop - Every Engineer is a creator conducted by CROSSINDIA

Academic Toppers

KAVYA S (1CR14IS043) VTU Rank Holder from ISE - 6th Rank

SHREYA S (1CR17IS086) 3rd Sem Topper 88.82%

DIWANSHU SHARMA (1CR16IS124) 5th Sem Topper 78.75%

DHRUVA VATSA MISHRA (1CR15IS025) 7th Sem topper 88.63%

Placements & Internships

Company in which Intern	Student Count
Software AG	1 student
Cyient	1 student

Company in which placed	Student Count	Package
Huawei	3	4 LPA
Optimal Strategix	2	3.5 LPA
Wipro	1	3.5 LPA
Unilever	1	
Netgear	2	7 LPA
Software AG	3	
Sprinklr	3	6.93 LPA
Hitachi Solutions	4	4 LPA
Westline	1	10LPA
Cyient	1	
FACE	1	5 LPA
DAILYHUNT	1	9LPA