INFO-RISES

Department of Information Science & Engineering

CMRIT

CMR INSTITUTE OF TECHNOLOGY, BENGALURU.

ACCREDITED WITH A+ GRADE BY NAAC

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BY NAAC*

*National Assessment and Accreditation Council

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CELEBRATING 25 YEARS
CMRIT
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DEPARTMENT OF INFORMATION SCIENCE & ENGINEERING

INFO-RISES

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

Indeed it gives great happiness to convey the achievements or updates happening in the department. Even though this has been prepared as a formal record, it encourages the students, and Faculty to improve upon their strength and lessen their mistakes. We, as a team worked on various fronts to improvise students' skills, bring out their best through various activities. We thrive to 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 events. With these tireless efforts and additional trials we continue to strive better for our student community to reach their flying colors. We always work towards keeping ourselves and our students aligned with our vision and mission with the recent accomplishments.

   -**Dr. M Farida Begam**
    HoD, Dept. of ISE

MESSAGE FROM PROGRAM CO-ORDINATOR

Dear Alumni, students and staff of department

It is my pleasure to bring out the updated information of the department for the last six months through this department newsletter to you. This endeavor is the result of the efforts put in by a dedicated team of students and teachers. The newsletter offers a platform for showcasing our activities and sharing the journey of our department. We provide opportunities for students to participate in various technical & sports events/competitions. This newsletter is an attempt to highlight the achievements of the department. We have showcased the best and look forward to have more in the future.

   -**Prof. Swathi Y**
    Program Co-ordinator, Dept of ISE
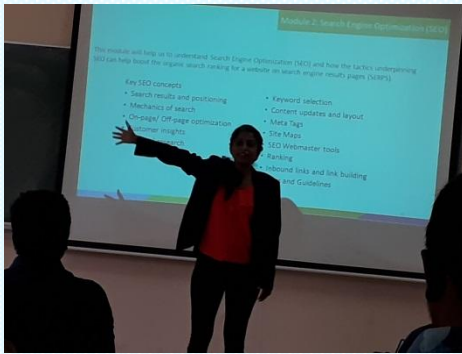
Club Activities

S. No	Club Name	Program Name	Date
1	Google DSC	Crash course on Machine Learning	11.10.2018 & 26.10.2018
2	FSMK	Panel Discussion	11.10.2018
3	CODECHEF	24hr Hackathon - **Hack-it-on 2.0**	29.09.2018 - 30.09.2018
4	FSMK	Localization in Kannada	25.09.2018
5	Google DSC	GIT version control system	14.09.2018
6	RISE	Adobe Photoshop	28.08.2018
7	CODECHEF	Competitive coding	28.08.2018
8	Google DSC	Flutter Workshop	20.08.2018
9	Google DSC	Googlers Field Trip	10.08.2018
10	RISE	HTML and CSS	09.08.2018
11	FSMK	Inhouse Club members meet	10.08.2018
12	Google DSC	Cloud Study Jam	13.07.2018

Industry Connect

- Expert Lecture on "**Debugging in Linux**" **by** Synopsis India Pvt Ltd, Bangalore on 11.08.2018.
- Expert Lecture on "**Bitcoins**" by CTS, Bangalore on 22.09.2018.
- Expert Lecture on "**Project Mentoring – Exciting World of Engineering**" by Monkfox, Bangalore on 09.10.2018.
- Expert Lecture on "**Motivational Speech - Key to Success**" by Cypress Semiconductor, Bangalore on 03.10.2018.
- Expert Lecture on "**Digital Marketing**" by Syncionn Tech, Bangalore on 11.10.2018.

INDUSTRIAL VISITS

Students of 5th Sem were taken on an Industrial Visit to CDAC, Bangalore on 10.08.2018.

Students of ISE department were taken on an Industrial Visit to Huawei, ITPL, Bangalore on 06.09.2018.

Students of ISE department were taken on an Industrial Visit to Bangalore Space Expo, on 08.09.2018.

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.
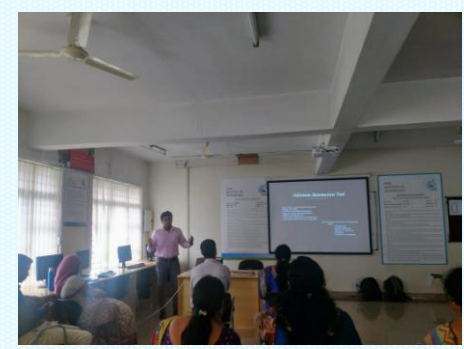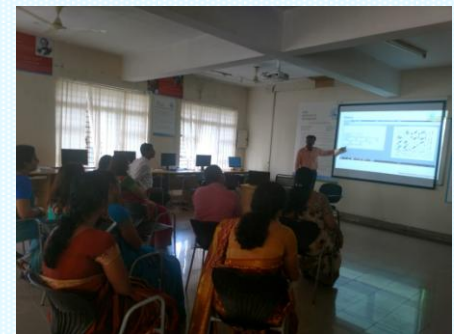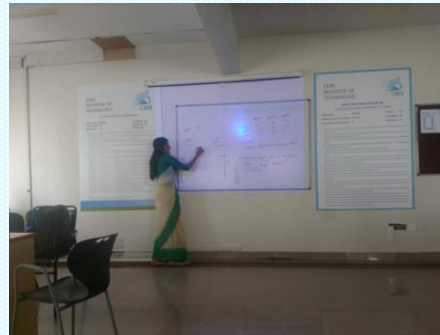
MOOC Courses

17 Faculty members have completed their MOOC courses.

175 Students have completed their MOOC courses.

The following faculty have given Tech Talks in the Department during this semester:

FACULTY	TECH TALK TOPIC
Prof. Lohith Raj	Selenium Automation Tool
Prof. Divya Singh	R Programming
Dr. R Chinnaiyan	Data Analytics with R
Prof. Sateesh A	Build your own Google Voice Assistance without Coding
Dr. Deepa Anand	A Novel Approach of Augmenting Training Data for Legal Text Segmentation by Leveraging Domain Knowledge
Prof. Dhanya Viswanath	Li-Fi Technology

Best Mini Projects

3rd Sem

First Prize: Mini 3D Printer

Second Prize: Swachh Bangalore

Third Prize: Fruit Classification

Students of 3rd Semester and 5th semester ISE have taken up 3 mini projects relevant to their semester subjects as well as real world problems.

5th Sem

First Prize: Nav Sensei

Second Prize: Women Security and Abuse Avoidance using IoT

Third prize: Smart Dustbin

Faculty Achievements

MOOC TOPPERS

Prof. Deepa Anand has secured top 5% in NPTEL exam on Deep Learning

Prof. Priyadharshini. A has secured badges for scoring 92% on "Blockchain essentials" and 98% on "IBM Blockchain Foundation Developer".

Prof. Shilpa Pande has secured 98% on "Introduction to Python: Fundamentals".

RESOURCE PERSON

Prof. Sudhakar K N has acted as Panel member for "Privacy: Boom it? Or Ban it? conducted by FSMK club, CMRIT on 11.10.2018.

Prof. Swathi Y has acted as resource person for workshop on "Awareness on NAAC" in SEA College of Engineering on 05.09.2018.

Prof. Swathi Y has acted as resource person for workshop on "NBA presentation" in SEA College of Engineering on 24.09.2018.

PUBLICATIONS

- **Dr. M Farida Begam** has published a paper titled "AN ENSEMBLE APPROACH FOR DATA PRIVACY AND PRESERVATION USING DISCRETE COSINE AND WAVELET TRANSFORMS" in the International Journal of Pure and Applied Mathematics - July 2018.
- **Prof. Swathi Y** has published a paper titled "A comprehensive survey on QoS routing and game theory in WSN" – September 2018.
- **Prof. Priyadharshini. A** has published a paper titled "Mitigating Selfish Misbehavior Attack in MANET by SMD Algorithm" in International Journal of Multidisciplinary July 2018.

SL. No	Faculty Name	Program Name	Venue	Date
	WORKSHOPS AND FDPs ATTENDED BY FACULTY			
1	Prof. Vaishali Deshmukh	Workshop on "Author workshop with Springer nature"	CHRIST university	12.06.2018
2	Prof. Akhilaa **&** Prof. Divya Singh	Workshop on "Introduction to R programming"	Rajarejeshwari College of Engineering	25.06.2018 to 26.06.2018
3	Prof. Aiswarya Lakshmi, Prof. Priyadharshini & Prof. Sheetal	FDP on "IoT"	NIT Warangal	18.06.2018 to 22.06.2018

4	Prof. Anu Jose	FDP on "Machine Learning"	Saintgits College of Engineering	18.06.2018 to 22.06.2018
5	Prof. Dhanya Viswanath	Workshop on Web technology & its applications	SJB Institute of Technology	16.07.2018 to 18.07.2018
6	Prof. Akhilaa	Workshop on Machine Learning	Google	07.07.2018
7	Prof. Akhilaa	Workshop on Journey of data packets in the network	Axone Technologies	12.07.2018 & 13.07.2018
8	Prof. Sheetal	FDP on Web Technologies & its applications	SJBIT	16.07.2018 to 18.07.2018
9	Prof. Swathi Y	FDP on Role of ratings, rankings & accreditation in creating institutes of eminence and excellence	PES University	21.07.2018
10	Prof. Vaishali Deshmukh	FDP on Research methodology	KSTA	10.07.2018 & 12.07.2018
11	Prof. Swathi Y, Prof. Sudhakar KN & Prof. Anand R	FDP on Engineering Research: Avenues, challenges & opportunities	B.M.S Institute of Technology	24.07.2018 & 28.07.2018
12	Prof. Prasad B S & Prof. Vidya U	Workshop on MATLAB	CMRIT	30.07.2018 & 31.07.2018
13	All ISE faculty members	FDP on Machine Learning	CMRIT	23.07.2018 & 27.07.2018
14	All ISE faculty members	Workshop on IoT	CMRIT	24.08.2018 & 25.08.2018
15	Dr. Farida Begam & Prof. Swathi Y	Research publication outcomes	IISC	21.09.2018

Events Organized

FDP ORGANIZED

5 days FDP on **Machine Learning** from 23rd to 27th July, 2018.

Dr. M. Farida Begam, **Dr. Deepa Anand** and **Prof. Anu Jose** served as resource persons for this FDP.

WORKSHOP ORGANIZED

2 days Workshop on **Internet of Things** from 24th to 25th August 2018.
Prof. Prasad B S, Dr. R. Chinnaiyan and Prof. Sateesh A were the faculty coordinators for this Workshop.

TYL – R PROGRAMMING

Training sessions on **R Programming** were taken by Dr. R Chinnaiyan as part of the TYL programme for the students of 5th semester across all the branches.
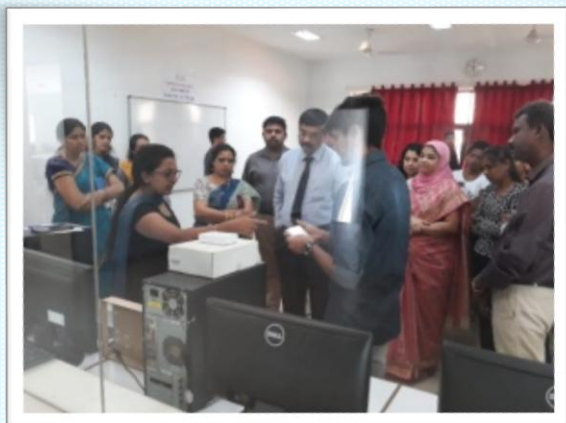
TYL – PYTHON CLASSES

As a part of the **Tie Your Laces (TYL) programmes, training sessions on Python** were taken by Dr. Deepa Anand, Prof. Lohith Raj and Prof. Akhilaa to the 3rd semester students of all branches.

PROJECT DEMONSTRATION

Centre of Excellence - **Data Driven Internet of Things**: **Mega Projects demonstration** on 31st October, 2018.

WORKSHOP ORGANIZED

1 day workshop on **Raspberry Pi and Arduino Uno** from 13th November, 2018.

The ISE Department has conducted **Training Sessions** for the final year students as a part of the **Tie Your Laces programme**. The trainings were taken by the faculty and alumni.

SL No.	Training	Scope	Duration	Resource Person	Dates
	9 LAKH MEDIAN SALARY TRAINING PROGRAMME				
1	Basic JAVA	Basic Concepts	1 day	Mr. Lohith	16th July, 2018
2	Advanced JAVA	Application-based	1 day	Mr. Lohith	17th July, 2018
3	Android Development	Introduction to Android application architecture	2 days	Ms. Priyadharshini	18th - 19th July 2018
4	OS	Operating System Interview questions and answers	1 day	Mr. Sateesh	20th July 2018
5	Data Structures and Algorithms-Basics	Basic Concepts with applications	1 day	Mr. Prasad & Mrs. Vidya	23rd July, 2018
6	Advanced Algorithms and Data Structures	Advanced concepts with applications	2 days	Mr. Prasad & Mrs. Vidya	24th -25th July, 2018
7	Advanced Computer Networks	Introduction to the advanced networking concepts with NS2	2 days	Ms. Priyadharshini & Mrs. Shilpa Pande	26th July - 27th July, 2018
8	Advanced Database Management Systems	Introduction to Advanced concepts and Management of Complex data types	1 day	Ms. Aiswarya	28th July 2018
9	Python	Basic Concepts	1 day	Mr. Lohith	30th July, 2018

10	Data Science with Python	Introduction to Data Science, Python Fundamentals, Machine Learning with Python	5 days	Mrs. Deepa Anand & Mrs. Vaishali Deshmukh	31st July – 4th August 2018
11	Data Science with R	R Programming Fundamentals, Data Science with R	3 days	Ms Akhilaa & Mrs. Divya	6th - 8th August, 2018
12	Full Stack Developer	HTML, CSS,	1 day	Ms Akhilaa	31st July 2018
		JavaScript	1 day	Mrs. Dhanya Viswanath	1st August 2018
		PHP, Ruby, Pearl	3 days	Ms. Sheetal	2nd -4th August
		MySQL & MongoDB	3 Days	Ms. Aiswarya & Mrs. Anu Jose	6th – 8th August 2018
		AngularJS	2 days	Mr. Abrar	9th – 10th August 2018
13	DevOps Stack	Introduction, Implementing DevOps in Real World	1 day	Mr. Abrar	11th July 2018

ORIENTATION PROGRAMME FOR 3RD SEMESTER BY ALUMNI

An Orientation Programme was conducted for the 3rd semester students as a part of welcoming them into the Department.

C J Anoop, alumni of ISE 2018 batch and Ravish Raj of 5th Sem ISE addressed the students about the Department, the events happening in the department, about the B.E course and about the extracurricular and club activities that the students can be a part of.

The whole idea was to get the students feel comfortable in the new environment and to motivate them to do better ahead.

Student Awards

STUDENT ACHIEVEMENTS

- G Rakshith won the 1st prize in the Art Club's Pencil Sketching event.
- Aishwarya Reddy B won Miss Fab Hair in the Fresh face event conducted by Oppo.
- S S Monish won 3rd prize in "Group Music Signing" – A Cappella.
- Abhishek R, S S Monish and Alisha Kulkarni secured the 1st prize and Hari Pranav A won the 3rd prize in Hack-It-On 2.0.
- Shashank S J won the 1st place in the Blind Art event held at CMRIT and Tejas P won the 1st place in the ETA club photography competition.
- C V Keerthana cleared the NTAT examination and was also selected as the Campus Ambassador and Radio Jockey by Firemud FM.
- Umesh R Warrier was part of the basketball men's team that secured the first runners up prize in the Spradha intercollege sports fest.

CENTUM ACHIEVERS

- Aditya Kumar (5thSem ISE) for Engineering Mathematics IV
- A D Jeevitha (3rdSem ISE) for Computer Aided Engineering Drawing
- Habiba Ahmed (3rdSem ISE) for Engineering Mathematics II

Hari Pranav A of 3rd semester ISE won the 1st place in the International Hackathon organized by DoraHacks and held at WeWork, Hebbal.

CERTIFICATE

HARI PRANAV. A

having participated and showed exemplary performance in DoraHacks Global Hack Series 2018 is hereby declared a

Honor DoraHacker

We hope that you can continue to love technology, to connect more talented hackers around the world and to solve the greatest problems we face in different industries.

Judge

07/10/2018
DATA

DoraHacks

CMRIT students win hackathon

The CMR Institute of Technology won the first prize in the international hackathon held at WeWork, Hebbal, recently.

The event was organised by DoraHacks to connect the most talented hackers around the world to solve the greatest problems we ace in different industries and to overcome practical issues in our diversiform society.

The hackathon saw over 300 participants from all over India. Hari Pranav A, of third-semester information science engineering, and Ashwin M S, of third-semester computer science engineering, were adjudged the winner and won a cash prize of Rs 21,700.
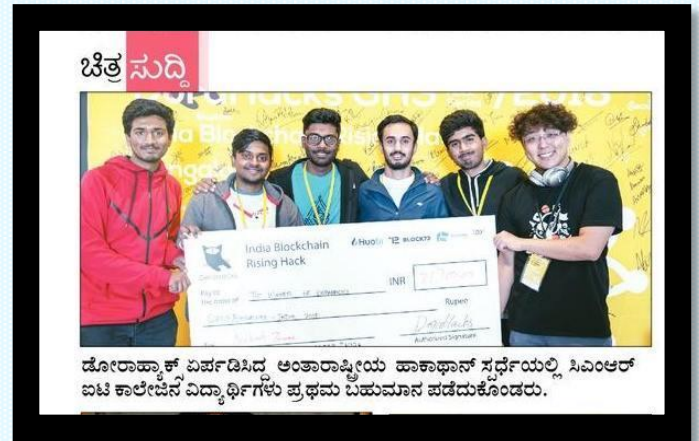
Hari Pranav A of 3rd semester ISE won the 2nd place in the Hedera Hashgraph Developer Conference and Decentralized Hackathon held at Axilor Ventires, JP Nagar on October 17th.

The following 6 students were awarded with CMR Scholarships for their academic excellence	
STUDENT	**SEMESTER**
Pratyush Kumar	3
Niranjan Subba Hegde	3
Aditya Kumar	5
S Kavan Singh	5
Sudha Kumari	5
Akash R	5

SEM	PASS %
8	95.92%
6	90.38%
4	76.67%

Academic Toppers

8th Sem – Kavya S

(1CR14IS043)

85.07%

6th Sem – Dhruva Vatsa Mishra

(1CR15IS025)

83.63%

4th Sem – Aditya Kumar

(1CR16IS007)

82.5%

{HACK-IT-ON} 2.0

Hack-It-On 2.0, a 24-hour Hackathon was organized and conducted by the Codechef club, Dept. of ISE, from 5pm on September29th to 5pm on September 30th2018. With over 43 teams and 120+ participants in all, it was a better show than Hackathon 1.0.

The theme was to solve any problem that is constantly nagging the society at large. The Vice-Principal addressed the audience after which Nelson, the Facebook Community Bangalore Head and Sarvanan, the CEO of Techsparx gave the welcome address.

The judges included Mr. Prem Kumar Ramesh (Qualcomm), Mr. Shashank P (NetCracker), Mr. S Balachandar (Shell India), Mr.Souvam (Skillenza), Mr. Prajnyasis Biswak (Skillenza) and Mr. Abhisek Prasad (Swiggy). The 1st prize of Rs. 6000 was awarded to Team Byteme Roodnoobs (Abhishek R, S S Monish and Alisha Kulkarni) and the 2nd prize of Rs. 4000 was secured by Team Pied Pipers (Krishna Keshan, Darshan N and Harshit Kumar). Every participant was awarded with coupons from Frapp and ZoomCar along with participation certificates. Internship offers were also announced and applications were welcomed from both Skillenza and Frapp.

Placements

Company in which placed	Student Count	Package
Bidgely Technologies	1 student	8.1 LPA
Eurofins	1 student	7 LPA
Deloitte	3 students	6.2 LPA
Ellucian	2 students	5.5 LPA
Thomson Reuters	1 student	5.5 LPA
TCS	6 students	4-7.7 LPA
Danske IT	5 students	4 LPA
Analytics Quotient	4 students	4 LPA
Infosys	7 students	3.6 LPA
Capgemini	6 students	3.5 LPA
Simeio Solutions	5 students	3.5 LPA
MScripts	2 students	3.5 LPA
ITC Infotech	7 students	3.3 LPA
LTI	11 students	3.18 LPA

Newsletter Editors:

Mrs. Dhanya Viswanath

Ms. Priyadharshini A