Singapore-India Hackathon 2018: Solutions for Humanity — Sowing the Seeds of Future Partnership
<date> <time> Thursday, November 15, 2018, 9.30 am onwards
<venue> The Fullerton Hotel Singapore

CELEBRATING 25 YEARS

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

TECH BYTES

DECEMBER 2018   DEPARTMENT OF CSE
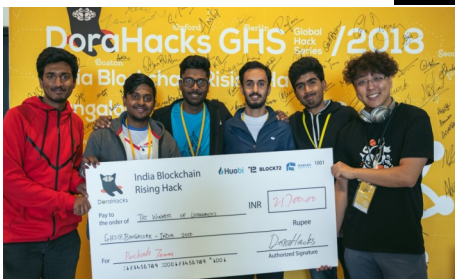
Hackathon	Industry Visits	Workshops
Student Achievements	Faculty Achievements	Club Activities
Guest Lectures	Alumni Connect	FDP

Vision

"To be a centre of excellence in computer science and engineering education producing competent professionals for a successful global career contributing to the society".

Dr. Sanjay Jain
(Principal)

Mission

- To build a faculty team with industry and academic exposure, capable of moulding students into competent professionals, supported by adequate computing and software resources.
- 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 programming and soft skills 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.

Dr. B. Narasimha Murthy
(Vice Principal)

Message from HoD

"As the computer technocrats of CMRIT, we focus on designing and implementation of solutions for real world problems. From academics to co curricular activities, determination and a never-say die spirit are embedded in the heart of every student not only making them brilliant students but good human beings. We are creating an environment for research, entrepreneurs and professional who possess skills and aptitudes in an array of functional disciplines.

I am very happy with the progress the department has made by imbibing in its students value based education synergized with modern teaching learning methods to produce a generation of well informed and emotionally sound. I am positive that in times to come we will continue this journey with elevated enthusiasm and persistently provide a platform of holistic learning to the young generation of learners. I expect all my young technocrats to focus on their cherished goals and strive hard to accomplish them transcending mediocrity and procrastination"

Dr. Jhansi Rani P.
(Professor and HOD, Dept of CSE)

INSIDE THIS ISSUE:

## Machine Learning workshop (23/07/2018 – 28/07/2018)

One week workshop on Machine Learning was organized by Department of CSE & ISE 23rd July 28th Jul. 54 candidates registered from various institutes and organization. Workshop was inaugurated by Principal Dr. Sanjay Jain and Vice Principal 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. P.V Reddy, Dr. Kavitha P. Dr. Farida Begam were the internal resources for the event.
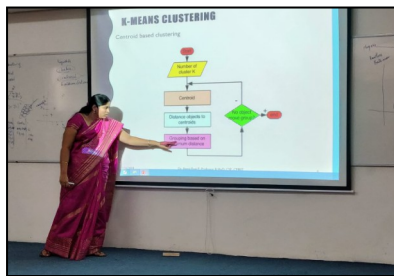
e-Yantra Workshop (5/10/2018-6/10/2018)

e-Yantra is a project supported by MHRD through the National Mission on Education through ICT (NMEICT) to spread embedded systems in college across India. The project is headed by IIT, Bombay. Dr. Paras Nath Singh, Professor(CSE) has got this eLSI(e-Yantra Lab Setup Initiative) in CMRIT as co-ordinator by IIT, Bombay. CMRIT has got a Principal's Meet followed by two days workshop on 5th and 6th Oct 2018 where 20 teams of engineering institutions from Karnataka, TamilNadu & Pandicherry participated. Principal & Vice-principal, CMRIT welcomed the IIT, Bombay team led by Sr. Project Manager Dr. (Ms.) Krishna Lala with trainers Mr. Lohit, Mr Abhijeet and Mr. Gokul. Dr Singh welcomed the principal & team members of engineering colleges. Dr. Krishna Lala also inaugurated the same principals' meet and workshop by video conferencing to one enginnering college of Surat. Dr. lala highlighted the benefits of e-Yantra workshop, training and lab. Three trainers has conducted two days training with hands on session in CSE lab with installation, coding & executing of programs on Robots (Firebird 5) provided by IIT, Bombay, All participants has coded and executed successfully. Participants appeared in online quiz after workshop.
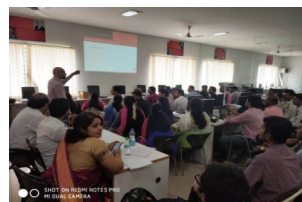
Hindustan Electronic Academy (HEA)

As per the request from HEA Poly Technique, CMRIT- CSE Department arranged a session for the students to adhere the Network Admin Lab syllabus of the Technical Board. The session was arranged in 2 labs and also in server room. During the session, the students were divided into 2 groups. One group of students were sent to the first floor and there server setup with the network connections are demonstrated. And another group of students were seated in fifth floor labs where Ubuntu OS and the system connection were explained. Also the students experienced by using the Ubuntu OS and they have asked to open few applications and created accounts.

The following topics were covered during the visit:

☐ Type and Configuration of client PC's and OS (Eg: Linux, Windows, MAC etc.)

☐ Type and Configuration of Servers and Domains used

☐ Type of networking (Topology and media used)

☐ Different network devices used (switch, routers, access points etc)

☐ Different types of peripheral devices used (Eg: printers, scanner, web cam etc.)

☐ Applications used by the users.

Resource Persons:

1.   Mr. Ganapathy Shet
2.   Mr. Praveen
3.   Mr. Pawan
4.   Ms.Namitha

Faculty:

1.   Dr. Jhansi Rani, CSE (HOD)
2.   Mrs. Sherly Noel
3.   Mrs. Gopika
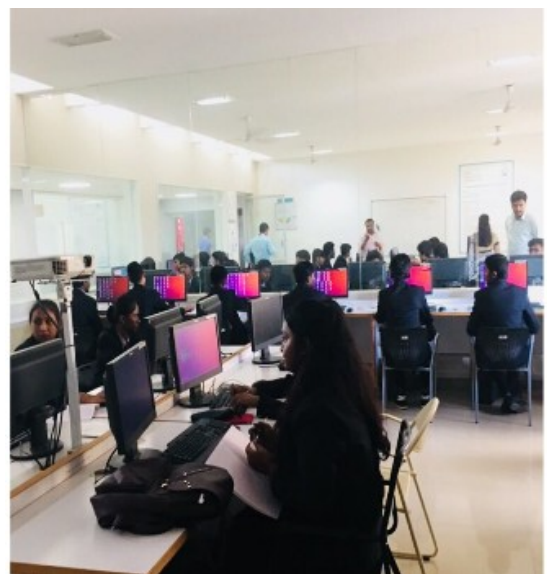
Singapore India Hackathon—(12/11/2018 to 14/11/2018)

Our team got selected to represent India for the international Hackathon - India Singapore Hackathon - 2018 after two levels of interviews Out of 6 members in our team, only 3 students have been selected for the same. We were hosted at Nanyang Technological University from the 11th of November to 15th of November. We were selected among 800 applicants and we were one among the 60 selected members .We worked on the project for Indoor and outdoor wayfinding. We got a chance to meet Narendra Modi (Prime Minister, India) and Lee Hsein Loong (Education Minister, Singapore).

Malavika Vinay ,

Manogna ,

Madhusoodhanan
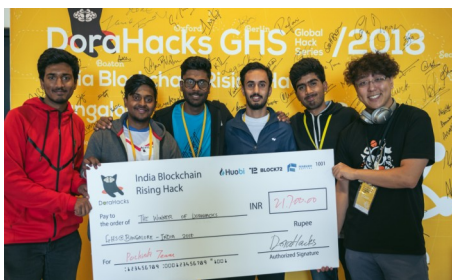
Ashwin M S and his team, won 1 st prize in Dora Hack . This event was organized by DoraHacks in which there were 300 participants form all over India . The event was held from 6-7 October 2018 at, WEWORKS Hebbal 9th floor, RMZ Latitude Commercial Building. Won cash amount Rs.21,700.

Guest Lectures/Talks				
Date	Topic	Resource person	Audience Strength	Photo
11/8/18	Debugging tools in LINUX	S Radha, Senior Project Manager Synopsis	56	
16/8/18	Digitization of an Enterprise and Technology Intervention	Satish Rajkumar, SVP, Volvo & UD Trucks	130	
20/8/18	Trend & Technologies in the Industry	Ashish, VP, Engineering, Global Logic	73	
01/9/18	SAP & Advanced Applications	Gotit Chaudhari, Manager, PWC Pvt. Ltd..	51	
15/9/18	Machine Learning	Mr. Ragavendra Desai and Mr. Sandeep, Application Developer, INTEL pvt. Ltd.	103	
19/9/18	Malware Analysis	Mr..Monnappa,Information Security Investigator	102	
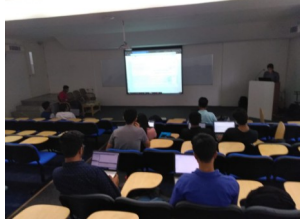
Guest Lectures/Talks				
Date	Topic	Resource person	Audience Strength	Photo
13/11/18	Trends in Front End Development	Mr. Mari prasad, Senior Developer, Crain Communications	25	
15/11/18	Blockchain & its impact on software market	Mr. Shivashish Panda, Systems Engineer, TCS	54	
25/7/18	Augmented Reality – Developments and Challenges	Prof. Shivakumar Shastry Professor ,The University of Akron,	75	
Skill Specific Training				
13/7/18 to 21/7/18	Placement Booster,CMRIT	Ms Mariet Susanna Furtado, Mrs.Rubini P E, Dr. P Kavitha, Ms. Navaneetha M, Ms. Madhuri M, Mrs. Swetha K.V, Mrs. Apurva kulkarni	50	
23/7/18 to 28/7/18	Data science using python	Ms Mariet Susanna Furtado, Mrs. Apurva kulkarni, Dr. P.N Singh	107	
23/7/18 to 28/7/18	Full Stack web Development	Mrs. Sherly Noel Mrs. Shyamasree Ghosh	7	

Student Club Activities

Club	Topic	Resource Person	Date	Atten-dance	Photo
ACE	AI and It's Applications	Dattatreya Sharma	10-8-18	20	
MIND-SPARK	Python - 1	Fardeen & Pavan	20/8/18	32	
MIND-SPARK	Python - 2	Fardeen & Pavan	28/8/18	11	
MindSpark	Machine Learning Workshop	Krishna Keshan & Harshit Kumar	16/9/18	36	
ACE	App Development with MIT App Inventor	Pavan Teja	20/9/18	33	
HackerEarth Hub - CMRIT	Introduction to Hacker Earth and competitive coding	Kumar Shourya	25/9/18	53	

Student Club Activities

Club	Topic	Resource Person	Date	Atten-dance	Photo
ACE	Code Swap	Pavan Teja, Kumar Shourya	9-10-18	6	
MIND-SPARK	Google MLCC Orientation	Krishna	11-10-18	21	
MOZIETY	Intro to web framework using flask	Vibhav, Shashi	11-10-18	6	
MOZIETY	OPEN IO - WebDev 101	Vibhav, Shashi, Rifaz	23/10/18	20	
MIND-SPARK	Arduino Workshop	Dylan	26/10/18	9	
MIND-SPARK	Google MLCC Week 1	Krishna	26/10/18	26	

Student Club Activities

Club	Topic	Resource Person	Date	Atten-dance	Photo
MOZIETY	OPEN IO - SQL 101	Anirudh, Vibhav	26/10/18	8	
WITY	Group Discussion	Monisha, Aishwarya	26/10/18	8	
WITY	Poster Making	Coordinators of the club	13/11/18	4	
Hacker Earth	Competitive Coding	Coordinators of the club	25-26/11/2018	17	
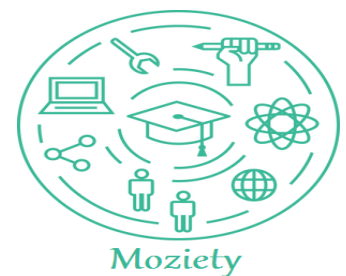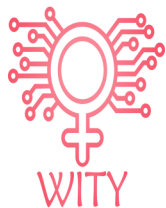
Student Achievements-Academic

Semester Toppers:

- Sonu Babu (IV Sem)
- GANESUNI MYTRI (VI Sem)
- Aditya AU (VII Sem)

Centum Achievers

Aishwarya B.R, Navya. C and Nethravathi A.S scored 100% marks in Engineering Maths IV

Result Analysis

Semester	Passing %
IV	71.85
VI	79.16
VIII	95.58

	Sonu S Babu, Suchitra and Reshma won 9th place in Hackathon
	Alisha Kulkarni was member of a team which won first place in CMRIT HACK-IT-ON 2.0
Priyanka Srivastava was selected as one of the 50 UI Guides by Stanford University for training innovation fellows. She also won CMRIT Leadership Award (Cash prize of Rs 10,000).	
	Malavika Vinay won CMRIT Leadership Award (Cash prize of Rs 10,000).
Ashwin M S won 2nd place in the Hedera18 Hackathon and was awarded cash prize of $ 7,000	
NASA Space Apps Challenge held on 20 - 21 October at Dayananda Sagar University . Team Pied Pipers (M Darshan, V Ashrit and Mir Ahmed Owasis) won the hackathon and where selected for the International round and also selected for an internship with " TEAM INDUS " a Private Space Rover Manufacturer.	
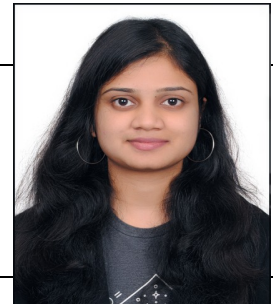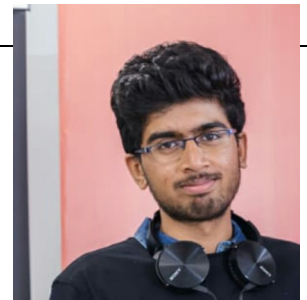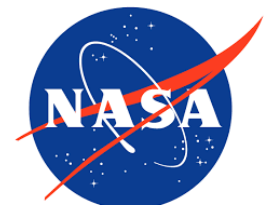
Mini Projects

III Sem:

SAI PRIYADARSHINI AND ASHWIN M.S	DETECTION OF HAND SIGN LANGUAGE TO DIGIT REPRESENTATION	1ST PRIZE
HARSHITH KUMAR, KAIWALYA SHUKLA AND KRISHNA KESHAN	CRIME FILE MANAGEMENT SYSTEM	2ND PRIZE
MADHUMITHA SUDHAKARA, NGANBA IROM AND PRERNA MAISNAM	MOTION DETECTION AND TRACKING USING PYTHON	3RD PRIZE
ANUSHA M, HARSHA B PATIL AND PRIYANKA M K	FACE RECOGNITION SYSTEM FOR ATTENDANCE MARKING	3RD PRIZE

V Sem:

PRADEEP KUMAR R AND MANISHA JANGID	GENERATION OF OTP USING HMAC ALGORITHM	1ST PRIZE
VEDHITHA S AND USMI MUKHARJEE	IAT QUESTION PAPER MANAGEMENT SYSTEM	2ND PRIZE
MANJULA K AND GEETHIKA M	ONLINE ASSIGNMENT MANAGEMENT SYSTEM	3RD PRIZE

Student Achievements-MOOC

Elite + Gold Certificates

Student Name	Course	
Anju KP (Top 1%)	Introduction to Internet of Things	
Harshini P.	Introduction to R Software	

Elite Certificates

Student Name	MOOC
Pooja Preetha, Janani N, Chaitra C, Chethan BS	Introduction to Internet of Things
Bhavya R, S Neha Singh	Introduction to Machine Learning
Reena, Riya Francis, CM Arjun	Cloud Computing
KP Neethu, B R Aishwarya, Karuna Rohilla, Anmol	Social Networks
Shashank V Sonar, Suhas C V	Discrete Mathematics
Prakhyath Jain	The Joy of Computing using Python

Industrial Visits		
Visit Details	**Date**	
HUAWEI, ITPL, Bengaluru Campus.	6/9/2018	
CSIR-4PI, Bengaluru. Student Count : 45	11/10/2018	
Software Technology Park of India (STPI) Student Count : 40	26/10/2018	
U R Rao Satellite Centre, ISRO,Bengaluru Students (Count 70)	12/11/2018	

Sports

NGANBA IRON won bronze medal under Senior &Junior level for STATE FENCING CHAMPIONSHIP-2018 held at Yelahanka Bangalore

MAYUR SHIVAKUMAR Won Runner-up award in VTU Power lifting Competition

Soumya Srivastavaa Won 1st place in Spardha'18 Chess competition girls category
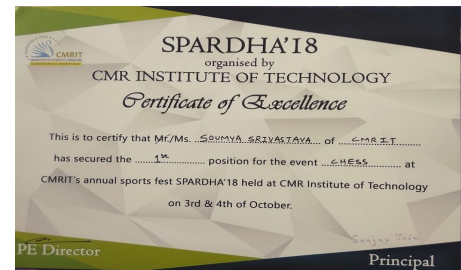
Sushmitha and Reshma were Runner-ups in SPARDHA'18

Merit Scholarships

Name	Sem	Rs
Anusha M	III	10.000
Akhila B	III	10,000
Aparna Adiga G	III	10,000
Suraj Kishor	III	5000
Ujjwal Jain	III	5000
Suhas C V	III	5000
Prakhyath Jain	III	5000
Nganba irom	III	5000
Aman Gupta	V	50,000
Kanika	V	50,000
Navya C	V	5000
Thejas A M	V	5000
Vishwanath S	V	5000

Center of Excellence (CoE)-Machine Intelligence and Big Data

CoE is currently working on a total of 17 projects that include, 1.Pothole detection, 2.Face recognition in videos and images, 3.An IPL cricket analytics toolkit,4.Ping-Pong Game using Re-enforcement learning,5.Flapping Bird and air hockey,6.Stock Market Prediction,7.Automatic legal text Summarization,8.Fee payment system,9.Automatic attendance marking system using face recognition. The projects were displayed on 31/10/2018 to all the CMR students and staffs as a notion of getting valuable insights from others.
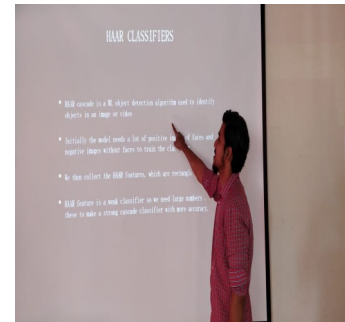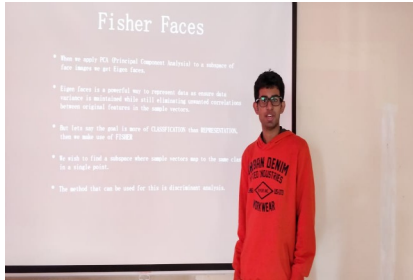
Faculty Achievements

Prof. Manoj Challa was Reviewer for Advances in Science, Technology and Engineering Systems Journal

Dr. P. N. Singh served as an expert in e-Yantra Workshop conducted by IIT-Bombay from 5/10/2018 to 6/10/2018

Shanti Madam Book

Faculty Achievements-Paper publications		
Faculty Name	**Paper Title**	**Publication**
Dr. Jhansi Rani	A Novel Routing Protocol for security over Wireless Adhoc Networks 3.	ICERECT-2018
	Defending against packet dropping attacks in Wireless Adhoc Networks using Cluster based Trust Entropy	ICACCI-2018, 2018 International Conference on Advances in Computing, Communications and Informatics
	Analyzing Big Data Originated from Social Networks and Data Communication Networks: In-terms of Accuracy and Performance Speed	IEEE CCEM 2018
Dr.P N Singh	Defending against packet dropping attack in Wireless adhoc Network using Cluster Based trust entropy	IJSRD: ISSN(online): 23210613
Prof. Manoj Challa	A novel approach for cluster head selection and ACO based routing for WSN	IEEE Xplore- International Conference on Intelligent Computing and Sustainable System ICICSS 2018
	A Combined Approach of Data Aggregation and QoS Improvement Using Swarm Optimization and Game Theoretic Approach for WSN	Journal of Advanced Research in Dynamical and Control Systems (JARDCS)
Prof. Shanthi M. B	Advances in Swarm Intelligence for Optimization Problems in Computer Science	Published by CRC press Taylor and Francis Group
	Secure Localization for Underwater Wireless sensor Networks using Probabilistic Approach	IEEE-Explore
	Mobility Based Secure Localization in Underwater Wireless Sensor Networks	International Journal of Engineering & Technology, 7 (2.33) (2018) 1025-1030
Prof. KiranBabu T.S	A Comparative Study on Advancements and Key Protocols in DTN Networks	IEEE Xplore- International Conference on Intelligent Computing and Sustainable System ICICSS 2018

MOOC(Massive Open Online Course)

MOOC for faculty is one of the key initiatives of this semister. Totally, 48 MOOC completed by 27 faculty members from various agencies like NPTEL, Udemy, Edex, Stanford University, Cisco netcad, Raspberry Foundation, Coursera and Cybrary. Here is the highlights:

Top 5% Certificate: Dr. P.N. Singh for Programming, Data Structures and Algorithms in Python 100%

ELITE certificates:

Name	Course	
Sherly Noel	Introduction to Internet of Things	

Projects Grants	
Name of project and amount	**Faculty Name**
MODROBs - Data Science Lab - 20 Lacs (AICTE)	Dr. P.N. Singh
Faculty Development Programme - Big-Data Analytics in Python - 7 Lacs (AICTE)	Dr. P.N. Singh

Placements-Company wise details	
Company	Number of Students placed
TCS	13
Deloitte	12
LTI	10
Simeio Solutions	7
Infosys	6
mscripts	5
GlobalLogic	5
Capgemini	4
Elluician	4
Eurofins IT Solutions	3
Scripbox	3
Danske IT	3
epsilon	3
Deltax	2
Mindtree	2
Allstate	2
Sony	2
BIDGELY	1
Analytics Quotient	1
SAP	1
HPE	1
Texas Instrumentation	1
6th energy	1
Thomson Reuters	1
Sigmoid	1

Placements-Student wise details

Student	Company Names	No. of Offers
AADITH MENON	DeltaX/surya Software	2
APOORVA MAHESH BHAGAT	SCripBox/tcs	2
AYUSHI	TCS/ Danske IT	2
DARSHAN A.S	Deloitte/Scripbox	2
GARIMA SINGH	TCS/all state	2
KESHAV VIKAS	Eurofins/TCS	2
RAMYASHREE N	LTI/ellucian	2
SHREEVATHSA S CHATRA	TCS/ellucian	2
SHRUTI MADHAV KULKARNI	Eurofins/SCripBox	2
V ASHRIT	Global Logic/TCS	2
VAISAKH M	Deloitte/Mscripts	2
VARSHA M	Global Logic/ellucian	2
C H SINDHU	LTI, Infosys	2
A.DEEPTHI	Epsilon	1
ABHINAV RAJPUT	DeltaX	1
ABHISHEK S	Deloitte	1
ADITI D BHAT	epsilon	1
ADITI SINGH	ITC infotech	1
ADITYA VIDYADHAR KAMATH	Eurofins	1
AJISH A	all state	1
AKANKSHA ACHANTI	deloitte	1
ANIRUDH NAIR	TCS	1
ANJALI	TCS	1
ANKUR CHAUDHARY	Mscripts	1
ANSHULI	TCS	1

Placements-student wise details

Student	Company Names	No. of Offers
ARUSHI GUPTA	HPE	1
AVINASH	Analytics quotient	1
AYUSH ATUL HATE	Deloitte	1
B VARSHAA SHREE	SAP	1
ARCHANA RAGHUNATH	Simeio Solutions	1
CHAITRA B	mindtree	1
DEEKSHA G S	Simeio Solutions	1
DEEPA N	Capgemini	1
DHANUSH KUMAR S	Global Logic	1
DIANA ELIZABETH ROY	Global Logic	1
DIVYA HG	mindtree	1
DIVYA T	Deloitte	1
DOLLY BAGARIA	Deloitte	1
GANESUNI MYTRI	Bidgely	1
HARSHIT CHOURGADE	ellucian	1
HITESH KUMAR	TCS	1
ISHAAN ABHINAV	Thomas Reuters	1
ISHITA DONGRE	Simeio Solutions	1
JAVERIYA ZAKI	LTI	1
KALYAAN KUMAR SINGH	6th energy	1
LISHA RANJINI D	Capgemini	1
MADHUSOODHANAN K M	Mscripts	1
MANJUNATH S	Sigmoid	1
MANOGNA M	Mscripts	1
MISHA P	Simeio Solutions	1
NANDITA EKAMBARAM	ITC infotech	1
NIHARIKA GUPTA	Deloitte	1
PIYUSH KUMAR	ITC infotech	1
PRAGYAT SINGH	Deloitte	1
PRAJWAL DHATWALIA	surya Software	1
PRANNAY S REDDY	Global Logic	1
PRERANA JAIN	LTI	1
PRIYA BATNI	LTI	1
PRIYANKA SRIVASTAVA	Deloitte	1
RAINY JAIN	Mscripts	1

Placements-Student wise details

Student	Company Names	No. of Offers
RAJU KUMAR	TCS	1
RISHABH D	LTI	1
SABYASACHI GHOSH	ITC infotech	1
SAKSHI JAISWAL	LTI	1
SALONI PATNAIK	Simeio Solutions	1
SEHRAN KHAN	Danske IT	1
S SHABRHI VIGNESH	ITC infotech	1
SHAMALA C	LTI	1
SHRUTI YUVRAJ PANALE	ITC infotech	1
SHUBHAM RAJ	surya Software	1
SINCHANA M	LTI	1
SOURAV MOHAN RANE	Deloitte	1
SOWMYA SHREE S	capgemini	1
SREELAKSHMI M R	Simeio Solutions	1
SRIJAN SHETTY	Danske IT	1
TRISHALA P V	Capgemini	1
VARSHA P	Texas instrumentation	1
VARSHA S	LTI	1
VEDANT SHARMA	Deloitte	1
VIMAL SHETTY	Simeio Solutions	1
VINIT P KANANI	Surya Software	1
VINUTHA S HANCHATE	TCS	1
BHAVYA	epsilon	1
MANISH SHRESTHA	TCS	1
K. PRIYA SHETTY	Infosys	1
KUNAL KUMAR	Infosys	1
MEGHA LAXMINARAYANA	Infosys	1
Nikitha M	Infosys	1
Swetha V Annapoorna	Infosys	1

Alumni Connect

.24/06/2018: Nishant and Vedant (2014 Passed out batch) interacted with students

Several Informal visits by alumni to the department. (In picture: Mr. Domnic (2013 batch) with the faculty of CSE

Faculty Tech-talk Details

Faculty tech-talks were organized during departmental half days. The topics covered were as follows:

Sl. No	Faculty Name	Date	Topic
1	Dr. P. Kavitha	9/8/18	Ensemble Learning with Weka tool
2	Dr. P.V Reddy	17/8/18	Language, Logic, Objects, Computation and Machine Learning - A philosophical Tour
3	Dr. P. N. Singh	25/8/18	Visualization, analysis & programming of Recursive & **Non-recursive solution** of Tower of Hanoi problem
4	Mr. Anil D	20/9/18	Analyzing the Public Sentiment Variations on Twitter
5	Mrs Veena K Lalbeg	29/9/18	Introduction to Cognitive Labs
6	Mrs Jagadishwari V	09/10/18	Overview of Social Network Analysis with emphasis on Predictive modeling
7	Mr. Hemantha	23/10/18	SPARK Java Framework for RESTful API
8	Mrs. Manju	31/10/18	Disruption Tolerant Networks and its research insights
9	Mrs. Smitha	13/11/18	Beyond Cloud: Edge Computing
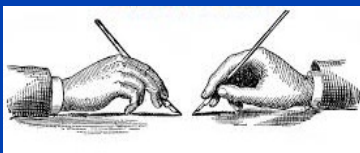
This news letter was edited by Prof. Chinmay S. Bhat , Prof. Manju S. and Prof. Priya J. under the guidance of Dr. Jhansi Rani P. We thank everyone who helped us.