



# TECH BYTES

JUNE 2020

DEPARTMENT OF CSE

**FOSS**

**Guest Lectures**

**Mega Projects**

**MoU**

**Alumni Talks**

**Moziety**

**Mindspark**

**ACE**

**Hackerearth Hub**

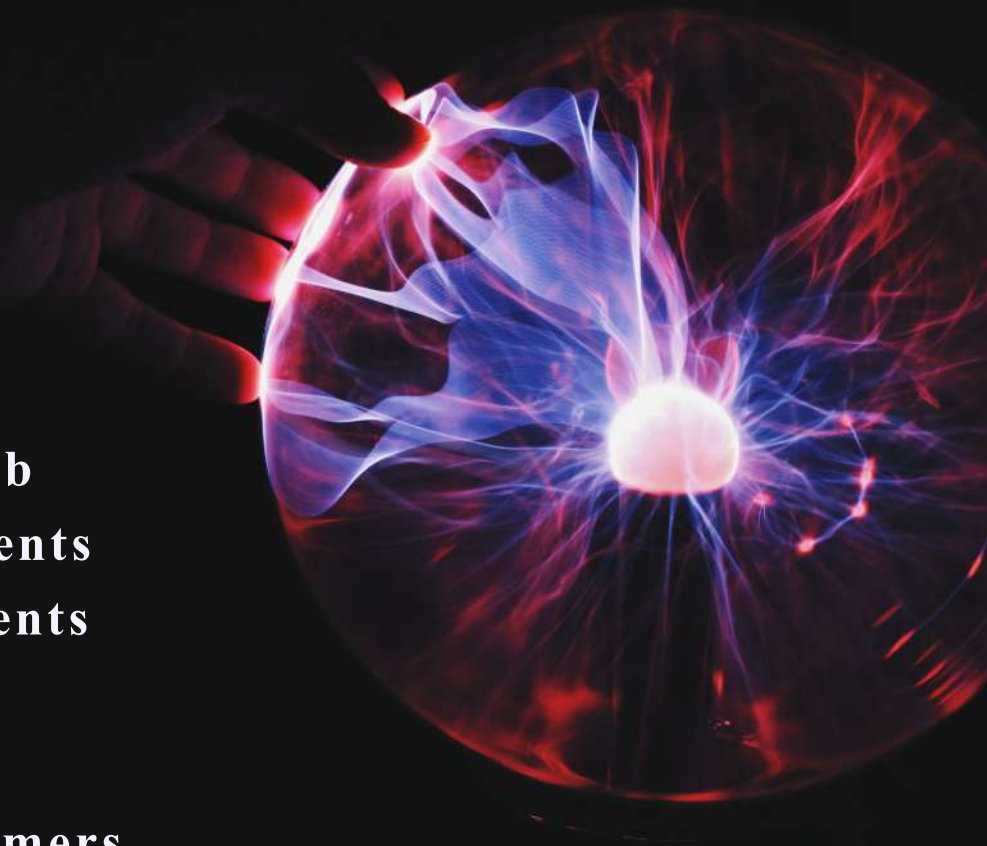
**Student Achievements**

**Faculty Achievements**

**Results**

**Placements**

**Faculty Star Performers**



**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

CMR INSTITUTE OF TECHNOLOGY  
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BENGALURU — 560 037, KARNATAKA, INDIA

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## 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



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

## Mission

- To build a faculty team with industry and academic exposure, capable of molding 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.

## Editorial Note

*We thank the respective coordinators from the department for all the reports on various events conducted and the timely updates to the ERP portal. This has greatly aided in organizing the data required for the newsletter.*



*We thank the faculty, students, and alumni for the contribution of various technical and non-technical articles, painting and photography for the newsletter. Our profound sense of gratitude to the department in giving us an opportunity in editing the newsletter.*

## Editorial Board



Mrs. Savitha N J  
Assistant Professor  
Dept. of CSE



Mrs. Vivia Mary John  
Assistant Professor  
Dept. of CSE

## Social Media



### TWITTER

[https://twitter.com/CMRIT\\_Bengaluru](https://twitter.com/CMRIT_Bengaluru)

### INSTAGRAM

<https://www.instagram.com/cmrit.bangalore/>

### YOU TUBE

[https://www.youtube.com/channel/UCpi96paEf16WS-Xf0\\_xyL9Q](https://www.youtube.com/channel/UCpi96paEf16WS-Xf0_xyL9Q)

### FACEBOOK

<https://www.facebook.com/CMRInstituteOfTechnologyBangalore>

### LINKED IN

<https://www.linkedin.com/company/cmrit-institute-of-technology-bengaluru/>



# Message from HOD



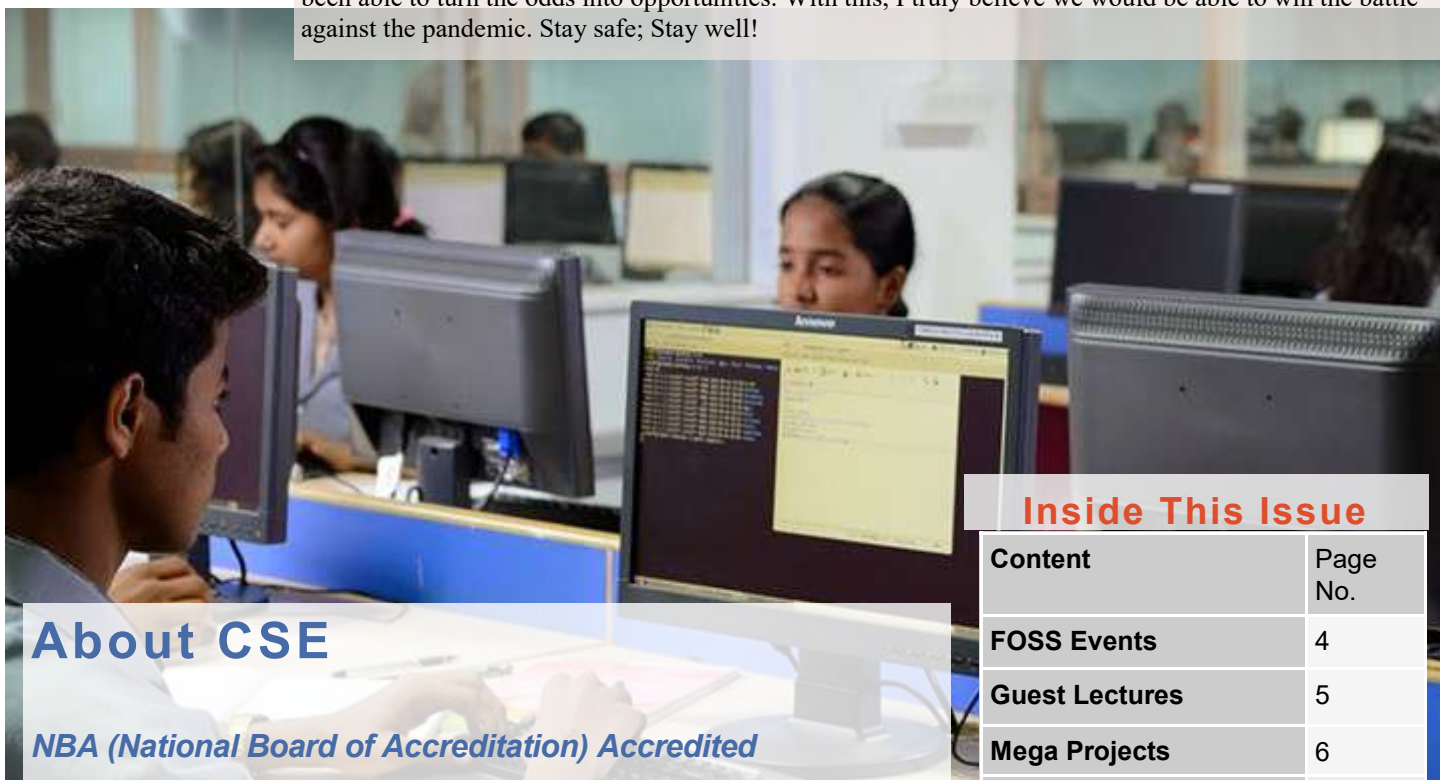
**Dr. Prem Kumar Ramesh**  
HOD, CSE

Dear Stakeholders,

I hope this message finds you and your family well, and in the best of your spirits.

While the COVID-19 pandemic has threatened to bring our lives to a standstill, we have committed to doing everything to keep the learning of our students going during this time. As you are aware, during the lockdown period, we have streamlined our online learning sessions to enable students to cope with the semester to the best extent possible. As the wise saying goes, 'Necessity is the mother of invention', this trying period had enabled all of us to explore innovative solutions to adapt ourselves to the 'new normal'. With all your support and cooperation we, the department of computer science and engineering at CMRIT have proved ourselves to be no less than the tech-savvy software industry.

This newsletter captures the various achievements, of both students and faculty from the brief period before the lockdown to date. The students and the faculty have made the best use of the online platforms to organize and take part in various activities including student club events, hackathons, and alumni & industry guest lectures. I congratulate all the coordinators and the participants for their admirable efforts in the various events. With cooperation from our students, faculty team, and all the stakeholders, we have been able to turn the odds into opportunities. With this, I truly believe we would be able to win the battle against the pandemic. Stay safe; Stay well!



## About CSE

**NBA (National Board of Accreditation) Accredited**



The department of Computer Science & Engineering has been in existence from the inception of CMRIT in 2000. The department even offers an M.Tech program in the field of Computer Science and Engineering. The department is a recognized research centre under VTU and offers doctoral programs in computer sciences.

The department aims to provide students with a strong foundation in Computer Science and enable them to integrate their knowledge with other disciplines for carrying out innovative discoveries.

Many of the computer science graduates from CMRIT step directly into computer-related career positions in both private and government agencies, while some choose to continue their education in graduate degree programs.

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## Inauguration of GUILD (FOSS)

To create an awareness about the importance of FOSS and its benefits

**Date: 22nd February 2020**

Guests: Mr. Rameez, Mr. Sai Madhu  
FSMK

Free Software Movement Karnataka is a registered non-profit organization. Their primary objective is to create and spread awareness of Free Software technologies in different strata of society including students, faculty, R&D institutes, Engineers and several other communities at every section of masses at large.

GUILD conducted its first event, an introductory session on 'Open Source and its Benefits' and its goals. The invited

guests were Mr. Rameez and Mr. Sai Madhu from FSMK, Dr. B. Narasimha Murthy, Vice Principal of CMRIT, Dr. Pushpa Mohan, CMRIT FOSS Cell Head and GUILD faculty coordinator, and Mr. Pranav Bhat, CMRIT alumni, Social Entrepreneur and the former student lead of GLUG.



The Vice Principal gave an eye opening speech about going beyond our limited syllabus to become competent employees.

He felicitated the members of GUILD who are graduating this semester for their dedication and their commitment.

Mr. Pranav spoke on the importance of being socially conscious citizens. Mr. Saket introduced the concept of Free Software and urged students to become better engineers. Mr. Ashwin, introduced GUILD, their values, goals and objectives. He displayed the projects that the club had worked on and the different kinds of technology used.



Mr. Rameez gave a session on the future of Free Software showcasing the social projects that FSMK has done, stressing on the different problems that FSMK is trying to solve presently. He stressed on topics like "What is the difference between Free and Freedom?", "What is Net Neutrality?" and "Why is privacy important?".

## Introduction to Linux and Git

Workshop as part of FOSS CELL—GLUG CLUB activities

**Date: 27th February 2020**

Resource Person: Gautam A Nagen-  
dran, ISE, GLUG Student Member



## Live Session on BLENDER

**Date: 12th April 2020**

Speaker: Kevin M, ISE Dept, 2nd sem

GUILD conducted a live session on BLENDER during the Lockdown as part of the COVID-19 pandemic.

Blender is a free/libre and open-source tool suite for 3D ( and 2D ) content creation. During the live stream, Kevin introduced Blender by showing the participants what could be done using the tool.



The participants were taught how to download, install Blender and use the various tool and options in it. Kevin also gave them a tutorial on how to model highly photo realistic 3D objects.

## Python 101

**Date: 14th and 16th April 2020**

Speaker: Ashwin M. S., 6th sem CSE  
Co-ordinator, GUILD

Python 101 was a series of two sessions organized by GUILD, in association with FSMK, on the basics of programming and python. A total of 125 people attended this session which covered the basic introduction to programming, understanding syntax, basic types and fundamental data structures of Python.

## Introduction to Python Web Frameworks

**Date: 2nd May 2020**

Speaker: Kanhaya Kumar Yadav, ISE,  
Co-ordinator, GUILD

A total of 40 students attended this session where they built their own Web Application using Django, i.e., a full fledged website with a backend database and user interface with all the features of routing and template inheritance.

## Challenges before Research and Research Sharing Outcomes

### *Pre Prints is important model for Sharing Research Contribution*

A guest lecture was organized on 'Challenges before Research and Sharing Research Outcomes' in collaboration with FSMK Bengaluru for Faculty who are doing and completed Ph.D.

Dr. Reddy emphasized that Indian researchers are facing challenges because of Pay walls built by Corporate Publishers. Open Access movement is picking up and part of UGC Committee recommended Pre Prints, which is an important model for Indian scholars to expose their research work to the world.

Dr. Pratap is a Professor and the former Director of R&D Cell (ECE), JNTU HYDERABAD, Treasurer FSMK (Free Software Movement of Karnataka) and has published over 100 articles in International Journals and Conferences.

**Date: 15th February 2020**

*Speaker : Dr. L. Pratap Reddy*

*No. of Participants : 20 Faculty*



## Statistical Thinking using JMP

An expert lecture was organized on 'Statistical Thinking using JMP' for the students. The talk provided knowledge of the Statistical Tool, which is an inquisitive topic of research in current trends.

Knowledge of Statistical Analysis is an important aspect to enter into the Data Science domain. It is widely used by many MNC's now. The speaker spoke about the importance of JMP and what can be done by using the tool. Students and researchers can use it for their research work in different Machine Learning projects.

Dr. Muralidhara Anandamurthy is currently the Academic Ambassador at JMP (Statistical Discovery from SAS). He was also the Manager at the Analytics Center of Excellence (ACOE) at Danske It and Support Services India Pvt Ltd. He has been the Adjunct Faculty (Analytics, Statistics, Operations Research and Marketing) to various Management Institutes. He has previously held a position as the Senior Manager at Target. He has also been the Business Manager at GENPACT.

**Date: 27th February 2020**

*Speaker : Dr. Muralidhara Anandamurthy*

*No. of Participants : 10*



## Networking Through GNS

An expert lecture was organized on 'Networking Through GNS' for the students. The talk provided the perspective of knowing Networking which is the talk of the town in today's research areas.

A good thorough knowledge of Networking i.e., Data Communication, plays a pivotal role to land jobs in companies dominating the Networking Domain like Cisco, Juniper Networks, etc.

Mr. Rajkumar gave the participants a hands-on activity for the session. He demonstrated the techniques of how a network can be created, how a switch or router can be connected for the purpose of communication, how a node can be configured and how to implement the methodology of data transmission. He also covered topics like IP addressing and detection of error in transmission.

Mr. Rajkumar has 19 years of experience in network product testing in the areas of firewall (Juniper / Cisco / McAfee), network DLP, scalability and performance testing for edge routers and doing test automation for Wide Area networking features involving security servers such as RADIUS and TACACS+. He has hands on experience with packet generator tools such as IXIA and has done both manual testing and test automation for scalability and performance of Cisco Routers. He has experience in working as a sustenance engineer for IOS Firewall products. He has also worked as the technical lead for McAfee Firewall Enterprise, testing various firewall features such as application discovery, SSL, CAC/OCSP etc and leading the team for three product releases. He has also managed QA activities of McAfee Network Data Loss Prevention solution.

**Date: 27th February 2020**

*Speaker : Mr. Yesudian Rajkumar J. K.*

*No. of Participants : 20*





## CMRIT-IAM (IT Asset Management System)

The primary objective of the project is to record all the assets of the college. Both IP based and Non IP based assets are managed using this system.

In this system, the user has to enter the information into this tool and at any given point in time, the management should be able to look and see the health of the system like which system needs maintenance / renewal / upgrade, etc.

It should send reminders to the stakeholders before the system fails by sending a 'Preventive Maintenance Report.'

The faculties who have worked on this project with utmost dedication and enthusiasm are Mrs. Preethi Sheba Hepsiba and Mrs. Poonam Vijay Tijare. The requirements were given by an ex-colleague, Mr. Yesudian Rajkumar. The students involved are: Mohammed Rifas and B. Sai Teja (3rd Yrs).

The tasks are:

- Record details of Computer Hardware
- Record details of Software
- Record Purchase and upgrade details.

## IAT Question Paper Management System

This is a Web based project designed to assist the faculty in the process of framing and reviewing the Question Paper for the IAT.

There are three faculty roles assigned in this process: the Course Instructor, the Chief Course Instructor and the IAT Coordinator.

The project has simplified the entire process of IAT QP review process by reducing time taken by CI to manually approach the CCI personally on multiple occasions until the paper gets accepted. It has added security to enable e-mail communication among the CI, CCI and test coordinators. A two layer security has been applied to avoid unauthorized access.

The faculties who have made this process virtual are Dr. Shanthi M. B., Mrs. Navaneetha M, Mr. Anil D. Students involved are: Pradeep and Manisha (4th Yrs)

## CSE Exam Tool

This project is an online examination tool which allows the faculty to create, modify and store questions to form sections and these sections can be grouped together to form tests/examinations. It also accommodates an attractive examination portal in which user can create an account after which user has to sign in to attempt the test.

It is Web based application developed in HTML5, JavaScript, PHP, CSS3, MySQL and web frameworks. It consists of different types of multiple choice questions. The answers are evaluated and the marks obtained for each student are stored in the database. The examiner can get the results immediately by downloading the result sheet. Authentication is provided via sessions and the password is stored in encrypted form in the database.

The tool has already been used for Core Tests, MOOC Exams, Python Tests, Aptitude Tests (Placement Dept), TEQIP & NBA Workshop (IQAC), Freedom Quiz (NSS), etc.

The faculties who brought this project into reality with hard work and dedication are Dr. Jhansi Rani P and Mrs. Sherly Noel.



## MEMORANDUM OF UNDERSTANDING Samavritti Innovations Private Ltd and CMR Institute of Technology

**Date: 11th May 2020**

CMR Institute of Technology has entered into an MoU with Samavritti Innovations Private Ltd on 11th May 2020 at Bangalore.

Samavritti Innovation's mission is to create simple, innovative, best-in-class solutions for the agricultural sector. The company would like to build a self-driving Electric Vehicle (EV) that will navigate through a plain terrain carrying 1 to 1.5 tons of water to irrigate the trees in the farmland.

The Centre of Excellence (CoE) in Machine Intelligence and Big Data, Dept of CSE, is a centre that aims to become a well-recognized centre by sharing its expertise and working on high quality research through increased cooperation and networking with leading institutions and companies.



## PROFESSIONAL BODY EVENTS



### Online Aptitude Quiz

**Date: 6th May 2020**

A college level online aptitude quiz was conducted for the pre-final year students. The event was conducted in collaboration with the ISCA (Indian Science Congress Association).

The quiz was targeted for all the pre-final year students to develop their skill set and prepare them for their placements.

The quiz consisted of 25 multiple choice questions which was a combination of tough, moderate and easy questions. Participants were required to solve these questions within a time slot of 1 hour. 233 students registered and 122 participated.

The winner of the Quiz is Sandeep Sah, a 6th sem student who got all 25 questions correct with a 100% score within an amazing time slot of 29mins. Other students who scored 100% score are Priyanka M. K., Shreya R. and Anju Sunil within time slots of 41, 44 and 49 mins respectively.



**WINNER**  
**SANDEEP SAH**  
**1CR17CS189**



### Online Puzzle Contest

**Date: 13th May 2020**

A college level online puzzle contest was conducted for the pre-final year students. The contest was held in collaboration with the ISCA (Indian Science Congress Association).

The quiz was targeted for all the pre-final year students to brush up their puzzle solving skills and prepare them for their future placements.

The quiz consisted of 30 multiple choice questions which was a combination of tough and moderate questions. Participants were required to solve these questions within a time period of 1 hour.

The winner of the Puzzle Contest is Aditya Sreevatsa K., a 6th sem Mechanical Student who got 112/120 points with a score of 93.33% within a time slot of 48 mins. The students who came second, third and fourth are Gireesh H. K. with a score of 70%, K. Sneha Lalita with a score of 63.33% and Prakhyath Jain with a score of 63.33%.



**THIRD PLACE**  
**K. SNEHA LALITA**  
**1CR17CS055**



**Faculty Coordinators:** **ASSOCIATION OF COMPUTER ENGINEERS**  
 Dr. Sunil Kumar P. V.  
 Mr. Pratham Majumdar



**QUIZ on C**  
**Resource Person: T Ramya**  
**Date: 19th Feb 2020**



**Technical Crossword**  
**Resource Person: Paul Alex**  
**Date: 4th Mar 2020**

**Student Coordinators**

- Rucha Patani
- Ramya T
- T.Paul Alex
- Ishita Srivastava
- Rithika F Johnson
- Deepak Vellanki
- Ishita Chattopadhyay
- Kirti
- Kumud Shaily
- K. Sai Nikhita
- Nitin Suraj

**Code Edge**  
**Resource Person: Paul Alex**  
**Date: 12th Apr 2020**



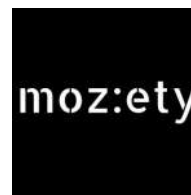
**HackerEarth Hub**

**Student Coordinators**

- Yash Mathur
- Vishal Kunder
- Vedant Bharbhaya
- Sourish Mukherjee



**Code Run Time Alert**  
**Resource Person: Vishal Kunder**  
**Date: 1st - 10th Apr 2020**



**Moziety**



**Student Coordinators**

- Sejal Ksheer Sagar
- Isha Malnir
- Shivani M V
- Pragya Pandey

**Open source:**  
 built for all,  
 protected by all,  
 educated to all

**IoT Quiz**

**Resource Person: Shivani**  
**Date: 19th Feb 2020**



**Student Coordinators**

- Mohammed Rifas S
- Mukul Nair
- Anand Vidhya
- Manpreet Rathore



**Networking Quiz**  
**Resource Person: Isha Malnir**  
**Date: 13th Apr 2020**

**QuaranCode**  
**Resource Person: Md. Rifas**  
**Date: 10th - 14th Apr 2020**



**Python Machine Learning Initiator**

**Resource Person: Shivani**  
**Date: 19th Apr 2020**



**Py-Coding**  
**Resource Person: Isha Malnir**  
**Date: 23rd Apr 2020**

**Data Science Quiz**  
**Resource Person: Shivani**  
**Date: 29th Apr 2020**



**Mind Crossword**  
**Resource Person: Shivani**  
**Date: 16th May 2020**



16.05.2020 Saturday @6pm



## The Journey from Campus to Corporate and its Preparation

The CSE Dept had arranged an Alumni Talk for the students with Mr. Prabhakaran G, the Co-Founder of Kodnest, from the batch of 2015.

Kodnest is a product based software company in the ED-TECH space offering various solutions to people who are eager to upskill and find an opportunity matching their skill sets. They are now associated with 160+ clients with more than 2 lakh users on the platform. IT is one of the best companies for job seekers and training.

Mr. Prabhakaran helped students to understand the importance of maintaining an average score throughout engineering, the importance of implementing good project work throughout the course, and building up a good profile. He made them believe that nothing is impossible if they put their consistent efforts and work hard.

He gave them a live example of his own life which inspired them. He boosted their confidence saying that it's never too late to start preparing. He also advised them that this is the right time to start, work consistently which will help them land in their dream companies.

**Speaker: Mr. Prabhakaran G**  
**Co-Founder of Kodnest**  
**Batch of 2015**  
**Date: 24th Apr 2020**



## Alternate Career Options and Basic Interviewing tips

The CSE Dept had arranged an Alumni Talk for the students with Mr. Vikash Maroti, the Founder of D-Athenaa, from the batch of 2010.

D-Athenaa Techno Career Consultancy Service is a leading provider of high-quality and innovative learning and performance support resources. They are known for training Students to achieve competitive advantages through superior enterprise-wide knowledge and skills.

It was an interactive and thought provoking session conducted with the intention of making students aware about how to be ready for an interview. He shared important tips on the preparation phase before going for an interview and also how to answer HR interview questions. He made the students understand the importance of core subjects such as data structures and algorithms, databases, etc.

He stressed that thorough knowledge of basic concepts is essential. He also mentioned that students always need to be ready and willing to learn new concepts as companies always prefer individuals who are ready to keep themselves updated in the latest trends in the industry. It was a very informative session for students as this talk served as an opportunity to clear their doubts and also get an idea of how an interview would be conducted during their placements.

**Speaker: Mr. Vikash Maroti**  
**Founder of D-Athenaa**  
**Batch of 2010**  
**Date: 1st May 2020**



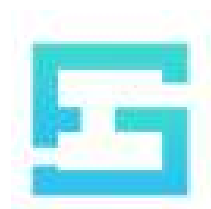
## Entrepreneurship Career Choice Options

**Speaker: Ms. Madhavi Shankar**  
**Co founder and CEO**  
**Spacebasic, Inc**  
**Batch of 2012**  
**Date: 16th May 2020**

The CSE Dept had arranged an Alumni Talk for the students with Ms. Madhavi Shankar, the Co-Founder and CEO of Spacebasic Inc., from the batch of 2012.

SpaceBasic a place where you can connect, collaborate and carry out day-to-day tasks within your hostels and student housing communities.

During her talk, Ms. Madhavi shared her journey of becoming the CEO of Spacebasic, Inc. It was a very interactive session conducted to give students an idea about the phases which an individual has to go through while choosing entrepreneurship as a profession. She stressed the importance of soft skills like relationship building skills, presentation skills and public interaction skills for a successful career. She also emphasized that it is important to learn certain technical concepts whether we like it or not and that we should sometimes trust our instincts whenever we have a strong gut feeling while taking decisions. She said that it is important to be patient while considering entrepreneurship and reminded students to keep practicing important concepts as hard work always pays at the end and also reassured students that it is okay to have self doubt and that they will eventually find their areas of specialization if they keep learning and exploring. She also mentioned that entrepreneurship is a very fulfilling profession and that we need to develop a proper business plan towards an outstanding issue to succeed in entrepreneurship. It was a very motivating experience for students.



Organized by  
 CSE Dept  
 &  
 IQAC

Alumna Talk  
 by  
 Madhavi Shankar  
 Alumna - CMRIT  
 Co-founder & CEO  
 SpaceBasic, Inc.

Featured in the  
 Forbes Forbes Asia 30  
 Under 30, Class of 2020.



#### About Alumni

Madhavi Shankar is 2012 passout from CSE Dept and currently cofounder and CEO of the mobile and web app SpaceBasic. The app is a platform to manage hostels and student housing matters, including attendance, payments and room allotment. Since launching in 2017, Madhavi Shankar was named as one of the Top 60 Women Transforming India by the Indian government and the United Nations.

16th May 2020 12.00 pm  
 onwards  
 on  
 'Entrepreneurship and  
 Career Choices'

Scan the QR Code for  
 registration.



The CSE Dept had arranged an Alumni Talk for the students with Mr. Bhavesh Sharma, the Technical Head, SDE II at Arvind Internet Private Limited, from the batch of 2012.

Arvind is a fashion powerhouse that is also building new age homes, a global leader in apparel manufacturing that is also transforming water management, a denim pioneer that is a trailblazer in advanced materials, a wearable technology manufacturer that is also delivering state-of-the-art engineering solutions.

During his talk, Mr. Bhavesh Sharma shared his journey with the students and also shared some tips to have a successful career. It was a thought-provoking session conducted with the intention of making students aware of the qualities and skills which are to be developed by students for a successful future. He explained the importance of soft skills and also advised students to be always open minded and to always take time to reflect back on what they have learnt. He also urged students never to be hesitant to ask for help when required and to always solve an outstanding problem, thus motivating students to define their success.

**Speaker: Mr. Bhavesh Sharma**  
**Technical Head, SDE II**  
**Arvind Internet Private Limited**  
**Batch of 2012**  
**Date: 16th May 2020**

**SMART INDIA HACKATHON**

14th Jan 2020

**Hardware Team Finalists****Team 1: Jatayu**

Saiprasad Revankar (1CR17CS125)  
Vikash (1CR17CS175)

**Software Team Finalists****Team 1: Smart Education**

Mohammed Rifas S(1CR17CS075)  
Mukul Nair (1CR17CS077)  
A Vidhya ( 1CR17CS001)  
Burla Sai Teja( 1CR17CS029)  
Sayan Pal( 1CR17CS132)  
Richard Delwin Myloth (1CR17CS109)

**Team 2: Computer Game Development**

Sonu S Babu ( 1CR16CS163)  
M Aishwarya (1CR16CS077)  
Suraj R Bellad ( 1CR16CS168)  
Deep Sresthi (1CR19CS040)  
Devadathan Menon( 1CR19CS043)

**Team 3: Healthcare & Biomedical devices**

Neeraj Kumar( 1CR17CS080)  
Nganba Irom(1CR17CS083)  
R Sruthi Parvathi (1CR17CS102)  
Ramya T(1CR17CS107)  
Mamatha M V( 1CR17CS070)

**HULT PRIZE WINNERS**

18th Jan 2020

Mohammed Rifas S (1CR17CS075)  
Vaibhav Padmanabha (1CR17CS170)  
Shubham Goyal (1CR17CS145)

**TEXAS INSTRUMENTS****SEMI - FINALISTS**

2nd Jan 2020

Abhinab Mishra - 1CR17CS004  
Yash Mathur - 1CR17CS179  
Suraj Kishor - ICR17CS159  
Vaishnavi Patil 1CR18CS177  
Yashwant Jain - 1CR18CS189  
Nalin Singh - 1CR19CS101  
Harshit Prajapati - 1CR19CS066  
Navya R 1CR17CS079  
Aparanji GS 1CR17CS195  
Madhumitha Sudhakaran 1CR17CS068  
Vismaya R 1CR17CS194  
Mamtha MV 1CR17CS070  
Rucha Patani 1CR17CS089  
Mohammed Rifas S - 1CR17CS075  
Mukul Nair - 1CR17CS077  
Neha Joshy - 1CR17CS081  
Burla Sai Teja - 1CR17CS029  
Raksha E P - 1CR17CS106  
Nganba Irom - 1CR17CS083  
Anand Vidhya - 1CR17CS001  
Pillai Vignesh S - 1CR17CS091  
Ramya T -1CR17CS107  
R Sruthi Parvatha-1CR17CS102

Priyanka M K - 1CR17CS100  
Harsha B Patil - 1CR17CS046  
Anusha M - 1CR17CS015  
Pavan Rajkumar 1CR17CS090  
Richard Delwin Myloth - 1CR17CS109  
Neeraj Kumar 1CR17CS080  
Sayan Pal 1CR17CS132  
Akansha Agarwal (1CR18CS010)  
Aman Kapoor (1CR18CS014)  
Alajangi Niharika (1CR18CS013)  
Ankit Yadav(1CR18CS023)  
Sourish Mukherjee (1CR18CS161)  
Manas Dutta (1CR18CS193)  
PRAJWAL.G- 1CR19CS406  
Rajesh G Hebbar  
VEERESH B V  
Sevanthi. B  
Ramya D  
Teja B Reddy

**MOMENTUM 2020**

21st - 24th Feb 2020

**STATE LEVEL****RUNNER UP****KHO-KHO**

MAHESH BALAPPA (3rd Yr)  
VISHWANATH S (4th Yr)

**FOOTBALL**

ARJUN K SHARMA (4th Yr)  
ADITYA S (4th Yr)

**5th MITSUBISHI ELECTRIC CUP**

2020

**Finalists**

Rucha, Ramya, Sruthi, Mamtha (3rd Yr)  
15th February 2020

Mentor: Dr. Rijo Jackson Tom, Assistant Professor

**Quiz on C**

19th Feb 2020

**ACE CLUB****1st Prize**

RISHIKESH PATIDAR (2nd Yr)

**3rd Prize**

MOHAMMED WASEEM (2nd Yr)

**MODEL UN**

26th to 27th Feb 2020

**4th Prize**

MANPREET RATHORE (2nd Yr)

**IoT Quiz**

19th Feb 2020

**MIND SPARK CLUB****1st Prize**

SHALINI N (2nd Yr)

SUSANNA SUCHITA S (2nd Yr)



**COURSERA  
COMPLETED WITH  
HONORS  
1CR17CS075  
MOHAMMED RIFAS**  
"API Development on  
Google Cloud's Apigee  
API Platform"

**PRERNA 2020 PROJECT  
EXPO  
1st PRIZE**

Ramya, Sruthi, Mamtha (3rd Yr)  
6th March 2020



**Operation Silicon  
7th March 2020  
2nd Prize  
RASHMI M (2nd Yr)**

**VERTECHX10.0  
INNOVATION CHALLENGE  
1st PRIZE**

Ramya, Sruthi, Mamtha (3rd Yr)  
10th March 2020



**AURA' 19  
6th March 2020  
1st Prize**

**DEBATE COMPETITION  
VAIBHAV P (3rd Yr)  
GROUP SINGING  
SWEDEL (3rd Yr)  
USHA (3rd Yr)**

**2nd Prize  
GROUP DANCE  
SHREYA (3rd Yr)  
UJJWAL (3rd Yr)  
HARSHA B PATIL (3rd Yr)  
B SAI TEJA (3rd Yr)  
INDULEKHA (3rd Yr)  
ISHIKA (3rd Yr)  
CHANDANA (2nd Yr)**



**CODECHEF 10  
DAYS CHALLENGE  
18th April 2020  
1st Rank in CMRIT**

Mukul Nair (3rd Yr)

**Basketball Tournament  
Rotaract Club  
27th Feb 2020  
2nd Prize  
AVIK ADITHA SURESH (2nd Yr)**



**Project Proposal  
Approved by KSCST  
7th March 2020**

Kajol R Singh (4th Yr)  
Harita A (4th Yr)  
K Madhurekaa (4th Yr)  
K P Neethu (4th Yr)

**MENTOR  
Dr. PUSHPA MOHAN**

**CULTURA 2020  
6th - 7th March 2020**

**CHIEF EVENT CO-ORDINATOR  
ABHINAB MISHRA (3rd Yr)**

**TECHNICAL HEAD  
KRISHNA KESHAN (3rd Yr)**

**IN-HOUSE  
SOUMYA (3rd Yr)**

**MEDIA TEAM  
ABHISHEK (3rd Yr)**

**DEBATE (2nd Place)  
ANSHU (3rd Yr)**

**ECO WARS (2nd Place)  
ANSHU (3rd Yr)**



**HACKERRANK  
Python  
22nd April 2020  
Gold Badge  
Md. Rifas (3rd Yr)**





## CENTUM ACHIEVERS

18MAT31

**Transform Calculus, Fourier Series and Numerical Techniques**

ANANDARSHAN K HEBBALLI  
 BINDU PRIYA R  
 ISHA MALNIR  
 PREETI KHAITAN  
 PRISCILLA C

## TYL HACKATHON JAVA

2nd - 3rd May 2020

### Winners

Sourish Mukherjee - 2nd Yr  
 Ankit Yadav - 2nd Yr  
 Arjun Khandoori - 2nd Yr

### Second Place

Md. Aman Khan - 2nd Yr  
 Preeti Khaitan - 2nd Yr  
 Priscila C - 2nd Yr  
 Manpreet Rathore - 2nd Yr

### Third Place

Arpan Abhishek - 1st Yr

### Fourth Place

Bharath J - 2nd Yr  
 Chitra B - 2nd Yr  
 Anandarshan - 2nd Yr

### Fifth Place

Vaibhav Pradmanabha - 3rd Yr  
 Swedel Fernandes - 3rd Yr  
 Shruti Singh - 3rd Yr

## Station Officer

8th March 2020

Women's Day

SEVANTHI B (2nd Yr)



## TYL HACKATHON

C++

27th April 2020

### Winners

Akansha Agarwal - 2nd Yr  
 Aman Kapoor - 2nd Yr  
 Alajangi Niharika - 2nd Yr  
 Aman Kumar - 2nd Yr

### Second Place

Shraddha Sahay - 1st Yr  
 Pratik Mishra - 1st Yr

## TYL HACKATHON BDA/CS/FSD/ML

16th - 17th May 2020

### Winners

(ML using Python)

Shraddha Sahay - 1st Yr  
 Pratik Mishra - 1st Yr

### Winners

(Full Stack Development)

Isha Malnir - 2nd Yr  
 Jayant Kumar - 2nd Yr

## CMR Leadership Award

17th Jan 2020

SOPHIA MARY AUGUSTINE  
 PANCHAL VIRAL ASHOK

## TYL HACKATHON

Python

9th - 10th May 2020

### Winners

Shraddha Sahay - 1st Yr  
 Pratik Mishra - 1st Yr

### Second Place

Akansha Agarwal - 2nd Yr  
 Aman Kapoor - 2nd Yr  
 Alajangi Niharika - 2nd Yr  
 Aman Kumar - 2nd Yr

### Third Place

Harsha Dhiman - 2nd Yr  
 K. Subbi Reddy - 2nd Yr  
 Hrushikesh - 2nd Yr  
 Pratik Mukesh Bharuka - 2nd Yr  
 Meera Krishna P - 2nd Yr  
 Yashwanth Jain - 2nd Yr  
 Arpan Abhishek - 1st Yr



## FORBES 30 UNDER 30 ASIA TOP YOUNG ENTREPRENEURS CLASS OF 2020

Madhavi Shankar is cofounder and CEO of the mobile and web app SpaceBasic. The app is a platform to manage hostels and student housing matters, including attendance, payments and room allotment. Since launching in 2017, SpaceBasic quickly grew from 6,000 users to 200,000 last year and is targeting 1 million users this year. In 2019, Shankar was named as one of the Top 60 Women Transforming India by the Indian government and the United Nations.

Ms. Madhavi Shankar is an Alumni of CMRIT, class of 2012



## Sevanthi B doubles up as Station Officer on Women's Day

SEVANTHI B studying in Fourth Semester, from the Computer Science and Engineering Department of CMR Institute of Technology was invited by Police Department to work as STATION OFFICER (SO) for one day on account of Women's day.

She was selected on the criteria of her performance in SSLC and Diploma and also for her progressive achievements in Karate and Kalaripayattu form of Martial Arts.

She served as Station Officer from 8th March 2020, 5.00 pm to 9th March 2020, 5.00 pm at Kadugodi Police Station. She was honoured by the Police Staff at Kadugodi Police Station.



## Dr. P. N. Singh: "The Most Fabulous Professor"

Dr. Paras Nath Singh, Professor, is now one of the Most Fabulous Professors. The Jury and Council of Board members have selected Dr. Paras Nath Singh. This award was presented on 15th February 2020, at the 28th Edition of the World HRD Congress 2020, held at Taj Lands End, Mumbai. The Award was endorsed by the World Federation of Academic and Educational Institutions.

Dr. Paras Nath Singh has 34 years of experience in industry, research and academics. He has worked as a Technical Officer of BSHHC. He has also held positions of Head, Dean, Vice-Principal, Principal and Director of Engineering colleges of Andhra Pradesh, Odisha and Madhya Pradesh.

Dr. Singh has been appreciated 11 times in his academic record. He has also been awarded as Best Professor in Computer Science and Engineering by DNA and Stars of Industries Group.

The World HRD Congress is a great way to network with over 1200 plus HR Leaders from across the globe and many countries be-



## President of the Indian Science Congress: Dr. P. N. Singh

Dr. Paras Nath Singh, Professor, is now President-Elect (unanimously) of the ICT (Including Computer Science) section of 108th Indian Science Congress 2020-21. This was declared on 7th January 2020 in AGM meeting of 107th Indian Science Congress hosted by UAS(GKVK), Bangalore followed by a valedictory function in which hon'ble vice-president of India Shree Venkaiya Naidu was present as chief guest.

Dr. Singh is Invited Speaker of ICT-CS section since 2008. He is the first president of ICT-CS section, Indian Science Congress from Bangalore, Karnataka i.e. IT-Hub of India.

Indian Science Congress Association is a 107 year old professional body under the Ministry of Science and Technology, Government of India. It is one of the largest international conferences of the world held each year from 3rd to 7th January. It was inaugurated by our honorable prime-minister. Each year, more than 10,000 scientists, researchers, academicians, delegates and students participate with 4 to 5 Nobel Laureates from all over the world.





## FACULTY AWARDS

### 31st Jan 2020

Dr. Paras Nath Singh - President of ICT section of ISCA  
 Dr. Jhansi Rani P - Programming Skills Training and Test  
 Dr. Pushpa Mohan - Solo Singing  
 Prof. Manoj Challa - CMRIT Initiatives for Excellence  
 Dr. Shanthi M. B. - Completion of Doctoral Degree  
 Dr. Rijo Jackson Tom - Completion of Doctoral Degree, Filing Design Patent, Stand-up Poetry  
 Dr. Sunil Kumar P. V. - Completion of Doctoral Degree  
 Prof. Savitha N. J. - Java Trainer  
 Prof. Manjima R. L. - Deployment of Marasandra Village Project  
 Prof. Kartheek - CMRIT Initiatives for Excellence  
 Prof. Shivaraj B. - Deployment of Marasandra Village Project



### Quiz on international literature and events

11th April 2020

**WINNER**

Dr. P. N. SINGH

### NPTEL - IIT Translator

7th May 2020

**DBMS**

Dr. P. N. SINGH

**JAVA**

Mrs. K. S. SHASHIKALA

### Resource Person

31st Jan 2020

**MURAL LECTURE**

C. M. Science College

Dr. P. N. SINGH

### Scholarship Award

26th March 2020

**WE Local India 2020**

Prof. POONAM TIJARE

### Quiz on Fundamentals of Electronics

29th May 2020

**WINNER**

Dr. P. N. SINGH

### Resource Person

17th Feb 2020

**POWER OF PYTHON**  
DBATU, LONERE

Dr. P. N. SINGH



### Resource Person

18th Feb 2020

**Revised NAAC Accreditation Process**

Dr. TTIT, KGF

Prof. MANOJ CHALLA



**Resource Person**

4th Jan 2020

VTU TEQIP 1.3

Dr. P. N. SINGH  
Dr. JHANSI RANI P  
Dr. PREM KUMAR RAMESH  
Prof. MANOJ CHALLA



**Expert**

12th - 13th Jan 2020

AICDMB - 2020

Dr. JHANSI RANI P

**Resource Person**

27th Feb 2020

ML using Python  
Adhiyamaan College of Engg

Dr. KAVITHA P.



**Journal Reviewer**

Mar - Apr 2020

IEEE ACCESS  
IEEE Connect 2020

**Thesis Reviewer**  
Jain University

Dr. JHANSI RANI P

**Expert**

5th Mar 2020

LIC Member  
VTU

Dr. JACOB AUGUSTINE

**Journal Reviewer**

Feb - Apr 2020

IEEE ACCESS  
IGI Global  
ICSSSC 2020 (SRMIST)

Dr. RIJO JACKSON TOM

**Invited Alumni**

7th Mar 2020

Sri Ramakrishna Engg  
College

Dr. RIJO JACKSON TOM

**Journal Reviewer**

Apr 2020

SPRINGER NATURE

Dr. PUSHPA MOHAN

**English Prose**

15th Apr 2020

Literary Club  
Honorable Mention

Dr. P. N. SINGH

**NPTEL ELITE  
CERTIFICATE**

Jan 2020

**GOLD MEDAL**

Prof. K. S. SHASHIKALA  
PROGRAMMING IN JAVA

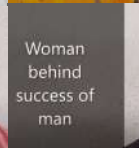
**SILVER MEDAL**

Prof. SAVITHA N. J.  
THE JOY OF COMPUTING  
USING PYTHON

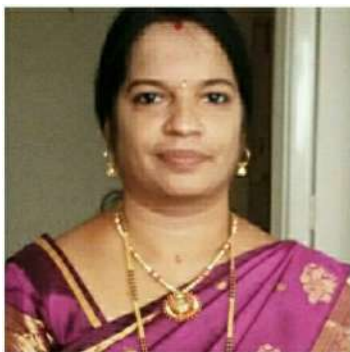
**Women's Day Celebration 2020**

CMR Institute of Technology celebrated Women's Day on 5th March 2020. The CSE Dept joined in the celebrations with full enthusiasm.

Our faculties, Prof. Sherly and Prof. Gopika had organized a musical chair competitions for all the staffs. A video was recorded and compiled by the faculties expressing their view of what a feminine presence in their lives meant to them.



# *Congratulations* On the successful completion of PhD



**Dr. Shanthi M. B.**

**Research Area**  
Underwater Wireless Sensor Networks  
(UWSN)

**Research Center**  
CMRIT CSE Research Center



## Tech Talks

12 Feb 2020	Prof. K. S. Shashikala	Body Area networks in health care applications - A protocol stack review
20 Feb 2020	Dr. Jacob Augustine	Introduction to SDN and an SDN application Sentinel
26 Feb 2020	Dr. P. N. Singh	Golden Ratio and list comprehension in Python
18 Mar 2020	Ms. Vivia Mary John	Emergent Tool Use from Multi-Agent Interaction
20 Mar 2020	Dr. Sunil Kumar P. V.	Delving CNN and SVM
11 Apr 2020	Mrs. Jagadishwari	Community detection algorithms in social networks
23 Apr 2020	Dr. Sreekanth M.	Research of Network Security Protocols
28 Apr 2020	Mr. Anil D.	Data mining for disaster management
5 May 2020	Ms. Poonam T.	Data clustering based on density based clustering
9 May 2020	Dr. Jhansi Rani P.	Design and Implementation of cryptographic algorithms using chaotic functions
13 May 2020	Dr. Prem Kumar	Dependable energy- efficient architectures
23 May 2020	Ms. Sudha D.	Cloud Sim
27 May 2020	Dr. Sugato C.	Quantum Computing-Some Preliminaries
28 May 2020	Ms. Gopika D.	Energy harvesting for IOT
29 May 2020	Dr. Kavitha P.	Convolutional Neural Networks



## FACULTY PAPER PUBLICATIONS

<b>Name of Faculty</b>	<b>Title of Paper</b>
<i>Dr. Shanthi M.B.</i>	<i>Security Enabled Smart Home Using IoT</i>
<i>Dr. Paras Nath Singh</i>	<i>Object Recognition &amp; Big-Image data Processing Using Machine Learning</i>
<i>Dr. Prem Kumar Ramesh</i>	<i>Ontology Based Power Profiling for Internet of Things Deployed with Software Defined Data Center</i>
<i>Dr. Prem Kumar Ramesh</i>	<i>Towards a Software Defined Data Center for IoT</i>
<i>Dr. Rijo Jackson Tom</i>	<i>Aggregator based RPL for an IoT-fog based power distribution system with 6LoWPAN</i>
<i>Dr. Rijo Jackson Tom</i>	<i>Agent negotiation in an IoT-Fog based power distribution system for demand reduction</i>
<i>Mrs. Gopika D</i>	<i>A Comprehensive Study on Various Energy Conservation Mechanisms in Wireless Sensor Networks.</i>
<i>Mrs. Rubini</i>	<i>A Comprehensive Literature Survey for Deep Learning Approaches to Agricultural Applications</i>
<i>Dr. Pushpa Mohan</i>	<i>AI Based Device Control using IoT and Google Assistant</i>
<i>Prof. Manoj Challa</i>	<i>An Intelligent Modified Approach towards Synthesizing Virtual Human Sign Language Text for the Hearing Impaired Communications based on OCR</i>
<i>Prof. Manoj Challa</i>	<i>Enhancing QoE in online video streaming based on Random forest regression prediction towards future popularity of a video</i>
<i>Prof. Kiran Babu T S</i>	<i>An Improved PROPHET routing using new decision making matrix for Delay Tolerant Networks'</i>

### DATA SCIENCE LAB

The Dept of CSE has successfully completed its project of 'Data Science Lab' under the MODROB Scheme of AICTE.

Dr. Paras Nath Singh, Professor, has got this project with a Grant-In-Aid sanctioned of Rs. 17,00,000 + recurring expenditure and has successfully lead the way to its completion.

The Data Science Lab is highly equipped with OS and Data Science / Programming Languages Software with Solid Edge Software.

The M. Tech students and Research Scholars / Associates of CoE (Big-Data and Machine Learning) are conducting their research projects, dissertation / thesis and are benefitted with the facilities.

Additionally, other branches like Mechanical and Civil students are enjoying their CAD lab using the Solid Edge Software.

Major machines / equipments of the Data Science Lab are: Work-Stations, Data Nodes, Color Printer, B/W Printer, LCD Projectors, Raspberry PI, Speaker, Dell Inspire Laptop, Networking Router and other furniture.

There is nothing powerful than an idea whose time has come in this COVID-19 period. I discovered when we suffer equally and in our capacity to suffer. May be we can focus this time to focus on what is truly important for students and teachers both of engineering college with scheduled and calendared semester; to be present, to learn, to be calm, to be kind of others & to the community.

All CMRITians send love out to each other. Teachers will keep online their creative juicy lectures flowing shifting inner awareness & experience to inspire our lovely students. Remember to keep your hands clean, your head cool, mind with learning zeal without stress and heart open.

Time will heal everything. We will be grateful for life in ways we never felt before. Hope and love last longer. Stay safe.

## Placements (Dec 2019 till March 2020)

**Inszoom (8 LPA)**

1CR16CS041 Chandni V Sharma

**All-State (7.5 LPA)**

1CR16CS162 Snehil Arya

1CR16CS089 Meghana S

1CR16CS126 Rajat Kumar

1CR16CS002 Aarathi Nair

**Open Text (7.25 LPA)**

1CR16CS168 Suraj Bellad

1CR16CS103 Neha Rani Singh

**MoveInSync (6 LPA)**

1CR16CS123 Rahul Majgi

1CR16CS136 Ronjay Rudra

**Dream Gains Financials India****Pvt. Ltd. (5.34 LPA)**

1CR16CS129 Manjula Sreedevi

**FIS Global (5 LPA)**

1CR16CS106 Nitesh S

1CR16CS180 Vishwanatha.

1CR16CS125 Rajanipriya

**Sigmoid (4 LPA)**

1CR16CS098 Muralidhara Reddy

1CR16CS044 Deepak

**Cognizant (4 LPA)**

1CR16CS130 Reena

**HGS (4 LPA)**

1CR16CS141 Sabitha Gajendran

1CR16CS062 Meghana K H

**Wipro (3.5 LPA)**

1CR16CS132 Rishabh Jha

**DeltaX (3.5 LPA)**

Pranav Nair

**Sacha Engineering (3.25 LPA)**

1CR16CS060 Janani

and many more....



## FACULTY STAR PERFORMERS

**Month: February****Awarded To: Dr. P. N. Singh****Nominated By: Dr. Shanthi M. B.**

Performing his job at an exemplary level by demonstrating an extra-ordinary commitment towards organizing different activities under different professional bodies. His achievements and dedication has lead him to be Elected as the President of the Indian Science Congress and as The Most Fabulous Professor.

**Month: April****Awarded To: Mrs. Sudha D.****Nominated By: Mrs. Poonam Vijay Tijare**

For being a very dedicated person and colleague. Humble and polite to students and fellow staffs. Work-loving and sweet person.

**Month: February****Awarded To: Ms. Namitha K. P.****Nominated By: Prof. Manoj Challa**

Recognizing the efforts of Ms. Namitha for her hard work, punctuality and responsible attitude towards her work.

**Month: May****Awarded To: Mrs. Sagarika Behera****Nominated By: Dr. P. N. Singh**

For her cool, calm and helping nature. Showing a learning attitude beyond her experience. Getting all work done with humble steps. Guiding all the staffs through the Mentoring Process.





DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

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