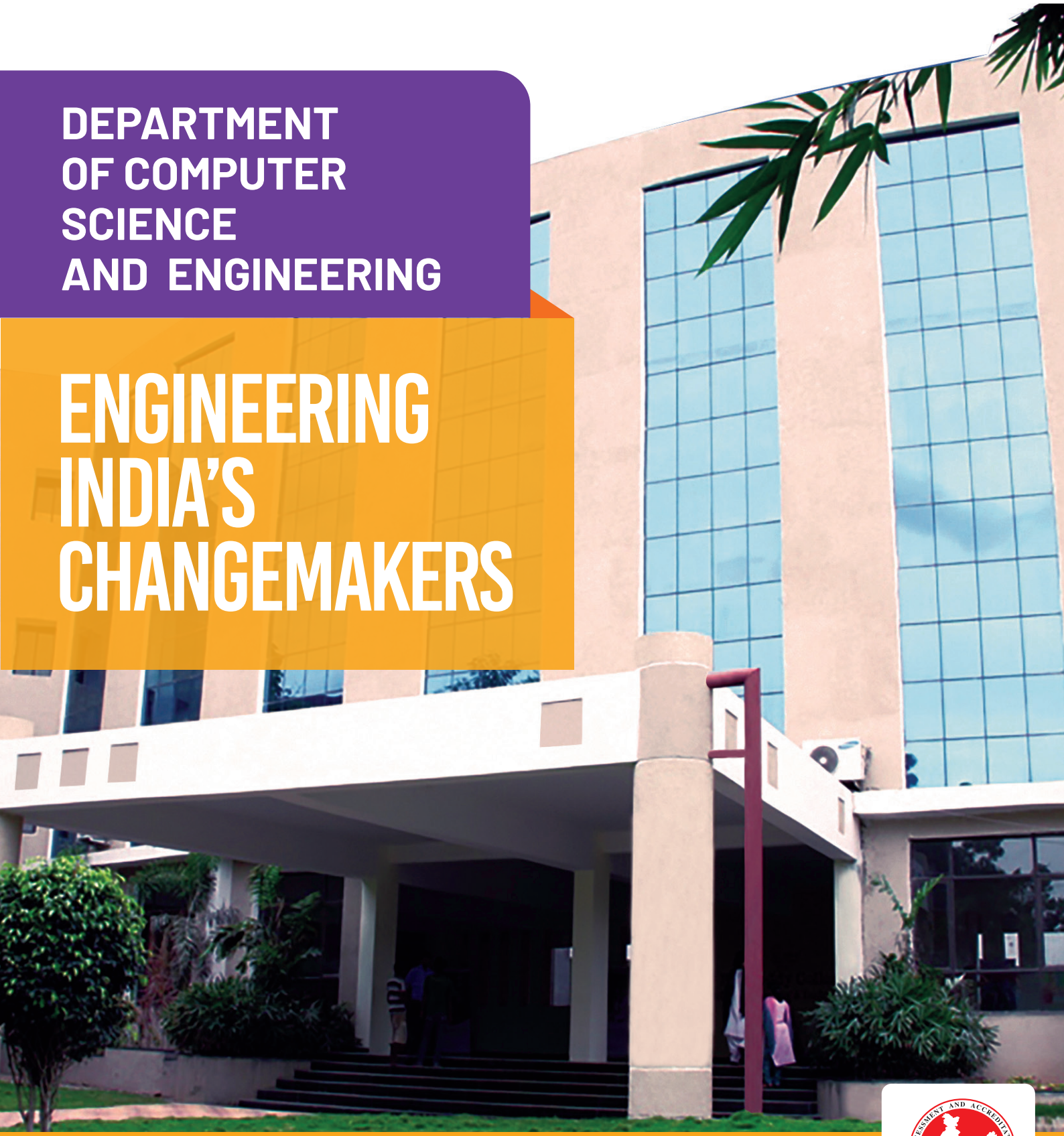
KG REDDY College of Engineering & Technology
Engineering India's Changemakers

NEWSLETTER

VOLUME VII • YEAR/ SEMESTER - 2019-2020/II

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

ENGINEERING INDIA'S CHANGEMAKERS



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DEPARTMENT PROGRAM EDUCATIONAL OBJECTIVES

PEO No	Program Educational Objectives Statements
PE0I	To provide solutions to difficult and challenging issues for engineering professionals by applying computer science and engineering theory and principles.
PE02	To offer successful careers in computer science and engineering fields in order to successfully pursue advanced degrees.
PE03	To enhance effective communication skills, collaborative work and exhibit high levels of professionalism, honesty and ethical responsibility.
PE04	To develop the ability to understand and analyze engineering issues in a broader perspective with accountability towards sustainable development.

VISION AND MISSION OF THE INSTITUTION

VISION

To become self-sustainable institution which is recognized for its new age engineering through innovative teaching and learning culture, inculcating research and entrepreneurial ecosystem, and sustainable social impact in the community.

MISSION

- To offer undergraduate and post-graduate programs that are supported through industry relevant curriculum and innovative teaching and learning processes that would help student's build knowledge and skills for their professional careers.
- To provide necessary support structures for students, this will contribute to their personal and professional growth and enable them to become leaders in their respective fields.
- To provide faculty and students with an ecosystem that fosters research and development through strategic partnerships with government organizations and collaboration with industries.
- To contribute to the development of the region by using our technological expertise to work with nearby communities and support them in their social and economic growth.

VISION AND MISSION OF THE DEPARTMENT

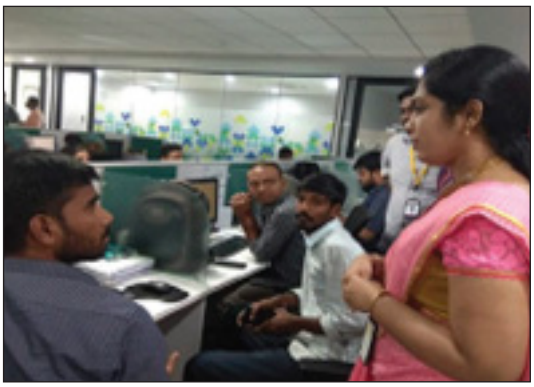
VISION

To become a self-sustainable institution and acknowledges as a new age engineering institution by inculcating research and entrepreneurial culture among stakeholders through industrial collaboration seeking the project support and providing consultancy.

MISSION

1. To inculcate a spirit of research and teach the students about contemporary technologies in computer science, to meet the growing needs of the industry.
2. To enhance the practical knowledge of students by implementing projects based on real time problems through industrial collaboration. To encourage and develop entrepreneurs to increase the job market and creating economic sustainability.

INDUSTRIAL VISIT



An industrial visit to "Caliber Technology Pvt. Ltd." was organized by the computer science and engineering department of our college on 18th December 2019. 10 faculty members of CSE department along with industrial visit coordinator, Mr.Murli Krishna visited. This visit was to interact with the software industry to understand current market scenario, the latest technologies, and the criteria for selection.

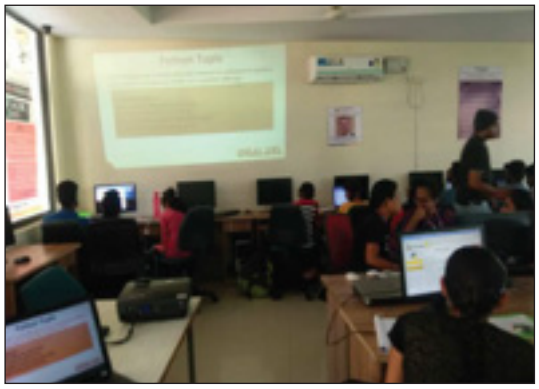
The session started with a discussion with Mrs. Apama, the chief financial officer, "Caliber Technology Pvt. Ltd.", introduced their company and explained their projects. Later the company HR, Mr.Naresh explained the requirement process of their company.

After the discussion, we met the company director, who encouraged us to have a campus visit and allowed us to interact with their employees in different departments. The employees explained their working conditions on real-time projects, which were interconnecting with the faculty members.

After the interaction with the employees, they offered lunch. Then the session was concluded with a Q&A session, where many of the faculty members asked different questions to the technical head-on current demanding technologies, market see nario. All the questions were answered and the doubts were cleared by them. Finally, all the faculty members were satisfied after the session.

ORIENTATION PROGRAM

The workshop was started first day i.e. (27-03-2019) with IOT applications and its uses in the first session. Introduction of IOT maker space. Students connecting Raspberry pi kits, A Raspberry Pi is a microcontroller in which Raspbian is the Operating System. It is inserted with an HMDI card which is initially installed with Linux and python programming kit. Then the students learned python programming with some examples and syntaxes. Later, they were explained about the history of raspberry piRasp berry pi Foundation, A charitable organisation founded in 2009. It was supported by Soc-System on a chip and Linux OS Based system and they were also explained about some tools which are required for it.



Later the students were explained the following things to build a career in IOT:-

1. End Nodes /Devices - Raspberry PI with Python Programming
2. Communication Protocol- LoRa Communication network
3. Cloud Server - HTTP and MQTT Protocols with Cloud servers
4. Data Visualization and Data Analytics

Python Programming, Overview and features

Python is a high-level, interpreted, interactive and object-oriented scripting language. It uses English key words frequently, whereas other languages use punctuation, and it has fewer syntactic constructions than other languages. Python is interpreted, interactive, object-oriented and a beginner's programming language. And it has some of the features like Easy-to-learn, Easy-to-read, Easy-to-maintain, A broad standard library, Interactive Mode, Databases GUI Programming language.

INDUSTRIAL VISIT

An industrial visit to "Caliber Technology Pvt. Ltd." was organized by the computer science and engineering department of our college on 20th February 2020, where the CSE dept. students of III years along with industrial visit coordinator Mr.Murli Krishna visit was to explain how the entity works flawlessly by simply following their norms. He explained the role of Caliber Technologies in bridging the gap between innovators and the corporate.

The Students also participated and cleared their doubts actively about what are the benefits and supports Caliber is providing them and to protect their idea by patenting it. Mrs.Apama has explained about different things that should be taken into consideration before thinking of any startup like the role of stakeholders, whether we would be successful in penetrating the market. Moreover one should be very particular about the uniqueness factor which would be attractive in the market de-spite many other similar products al ready available.

After the session is completed, the students were taken on the campus tour where students keenly observed the working individuals, the working environment and different facilities provided .. They create products that enhance operations and transform regulated en terprises with efficiency and how Caliber can support your Quality Assurance, Quality Control, Manufacturing, and Future Enterprise Analytics needs.

The session started with the resource person Mr.Pankaj Diwan. He has given an overall introduction to Blockchain technology. He spoke about the difference between thoughts and ideas, format for presentation, and gave a good bunch of examples related to Blockchain. This can be used in banking, education and other sectors...

The Resource Person explained the students how useful is the Blockchain by giving examples. He explained the format of presenting the idea and gave examples to convey the ideas. At the end of the session the resource person gave a demonstration on software and hardware requirements. He played a video for a better explanation for the students.

Chief Editor: **Prof Uday Sri**.

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