



KG REDDY
College of Engineering
& Technology
AN AUTONOMOUS INSTITUTION

K G REDDY COLLEGE OF ENGINEERING & TECHNOLOGY
COMPUTER SCIENCE AND ENGINEERING
NEWS LETTERS-SUMMARY SHEET

YEAR	MONTH
2018	March
	February

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KG REDDY
College of Engineering
& Technology

NEWSLETTER

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DEPARTMENT
OF COMPUTER
SCIENCE
AND
ENGINEERING

NEW AGE
ENGINEERING

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DEPARTMENT PROGRAM EDUCATIONAL OBJECTIVES

PROGRAM EDUCATIONAL OBJECTIVES STATEMENTS

PE01

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.
3. To encourage and develop entrepreneurs to increase the job market and creating economic sustainability.

BEYOND SYLLUBI

The department of CSE organized workshop on 'BEYOND SYLLUBI' in collaboration with "Career Path Solutions" on 15-3-2019 & 16-3-2019. Mr. S. Vinay Wardhan. He has over 15 years of sales and marketing experience, especially among the students community in particular. He is the prime mover behind Career Path.



They are able to convey the effective communication, develop the career by making the right decision and able to reframe themselves in communication and learn to be better individuals.



By the end of this two days workshop, the students are expected to know the importance of effective communication for career, change the way of thinking and the role of positivity, planning, listening skills during communication.



IOT MAKERSPACE



K G Reddy college of Engineering & Technology organized a workshop on IOT MAKERSPACE planned for all the IOT Maker space students on 27/03/19 and 28/03/19

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 HDMI 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 pi Raspberry 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



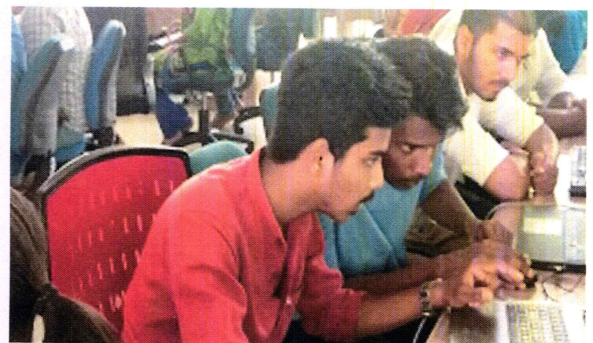
Python Programming, Overview and features

Python is a high-level, interpreted, interactive and object-oriented scripting language. It uses English keywords 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.

The second day started with energy and enthusiasm, where the students have learned the basics of Raspberry Pie and basic coding. They are eager to perform more complex and real time operations. In the beginning, they learnt the execution of led program, where the led was turning on and off. Then, in the other experiment they tried to get the led to blink as an assignment, which was fun. Next was the RGB led sensor where all the colors (RED, GREEN, BLUE) were in a single led which was used to produce different shades of colors. Button program was the next to be executed which was used

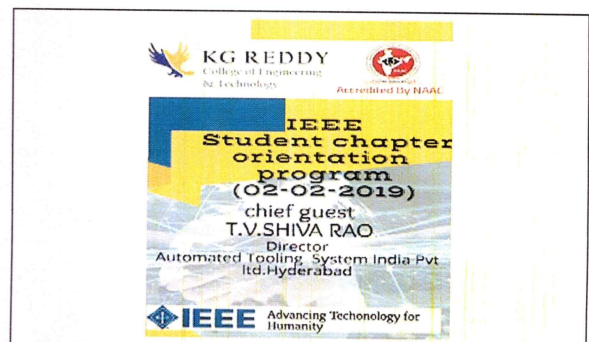
with a led and relay module to use the button as a switch to operate them. Button operation on led learned to use a button to operate a led on a Raspberry Pie in python. Then Ultrasonic sensor program was used to calculate the distance between the object and the sensor and was displayed on the monitor for the coded intervals of time.MQ135 sensor they were used to detect air quality. They learnt the Ultrasonic Sensor to calculate distance using a ultrasonic sensor on a Raspberrry Pie in python.MQ135 sensor. They learned to use MQ135 sensor to detect air quality on a Raspberry Pie in Python. Temperature sensor was also used to display the current temperature on the monitor for coded intervals of

At the end of the day the students were asked to interact with Alexa (A.I). The well experienced trainer, Mr. Baradwaj from Idea labs has explained about Raspberry Pi and python programming. The students have learnt so many things about IOT from his guidance. Finally, it was good and rich experience to conduct this guidance. Finally, it was good and rich experience to conduct this workshop. The students need much more workshops in the future. They also had a photo session, where all the students, mentors and faculty members were present. It was an amazing workshop to be a part of. They learned a lot about IOT in the workshop and hope to be part of it again soon



IEEE STUDENT CHAPTER ORIENTATION PROGRAM

The program has been inaugurated in the morning at seminar hall on 2nd February 2019 by Mr. T.V SHIVA RAO, the Director of automated tooling system India pvt. ltd. Hyderabad (Chief Guest), Dr. J. S. Jahagirdar, (Principal, KGR CET), Dr. Rajashakeriah (Dean of Academics & HOD of CSE), Dr. Murali Krishna, Prof. Khamruddin Syed (HOD of EEE), Ms. Ashwini Gulhane (Coordinator, IEEE), Mrs. C. Deepika (Coordinator, IEEE)





Mr. T.V. Shiva Rao and invited him on to the dais for addressing the students. He started his speech by introducing himself and by giving the brief history about himself. He presented his seminar in the form of power point presentation sharing his knowledge on the future opportunities for the students.



"IEEE STUDENT CHAPTER INAUGURATION" on February 02, 2019 KRCET HYDERABAD

Guests & Resource Persons
 T.V. Shiva Rao, M.Sc., M.Tech., M.S., Ph.D., IAS, IITM, IISc
 Director
 Automated Tooling Systems India Pvt Ltd Hyderabad
 TAAS Daughton Services Pvt Ltd Hyderabad
 Hon Secretary Institute of Directors Hyderabad
 Vice Chairman Membership Board, SAE India Hyderabad Divn
 Panel Member, MSME Aerospace & Defence, CII Telangana
 Former President, Trustee & District Secretary, Asia Pacific International Society for Automation
 Former Director & Vice President of ELICO Hyderabad

The program started by the address from the Dean of Academics & HOD of CSE Dr. Rajashakeriah saying about the importance of the IEEE to the students and what is the future scope. Prof. Khamruddin Syed has given the over view about the role of the students in IEEE. Dr. Murali Krishna has briefly introduced about Mr. T.V. Shiva Rao and invited him on to the dais for addressing the students. He started his speech by introducing himself and by giving the brief history about himself. He presented his seminar in the form of power point presentation sharing his knowledge on the future opportunities for the students.

"IEEE STUDENT CHAPTER ORIENTATION PROGRAM" is conducted on 02nd February 2019 sharp at 11:00 am. All IEEE members of ECE, CSE, EEE gathered at seminar hall.



She spoke about the purpose of IEEE (Institute of Electrical and Electronics Engineers) and described it as 'the world's largest technical professional society' promoting the development and application of electro technology and allied sciences for the benefit of humanity, the advancement of the profession, and the well-being of members. The program was concluded with vote of thanks by the IEEE member Ms. Saudamini (II CSE B).



INDUSTRY VISIT

KG Reddy College of Engineering and Technology had organized an Industrial Visit on 10th April 2019 to Infosys Sez Pocharam Campus located in Ghatkesar; Hyderabad for TASK registered students of CSE III year. The visit was organized with prior permission and guidance of Hon. Principal Dr. R. S. J ahagirdar.

Details of Journey:

- The college bus started from Mehdiptanam at 7:30 AM on 10th April 2019 along with co-coordinators and students.

At the end of the first session, the spoke person gave a task to the students and advised them to ask at least one query of their own interest about company culture, work life balance, work pressure, and the technology they are working on and he has explained the same in the next forenoon session.

- A group photo of students was taken with Spoke persons, TASK co-coordinator and faculty co-coordinators

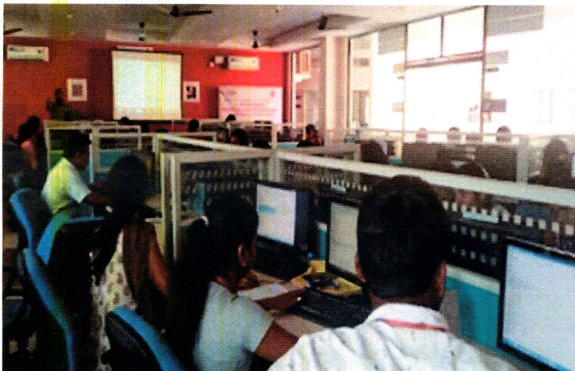
The bus reached Infosys Sez premises at Pocharam campus at 9:00 AM. In the very beginning of the visit, the coordinators were provided the visitor passes. They reached the company premises by the college bus and collected visitor's passes followed by the security check-in in ECC building.

Ms. M Jyothi, Ms. Sonam Sharma and Mr. Joy Kumar were the co-coordinators for this whole industrial visit.



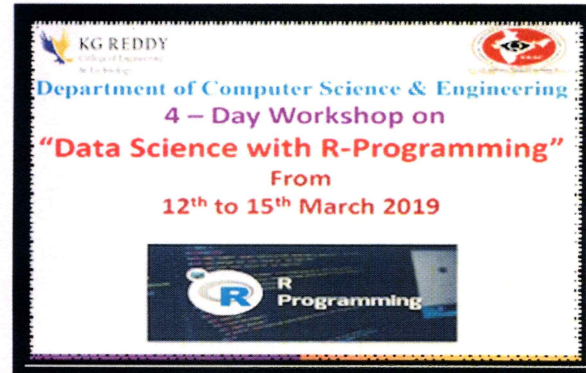
DATA SCIENCE WITH R PROGRAMMING

Data Sciences with R Programming mainly focuses on how to use R, the basics of this beautiful open source language, including factors, lists and data frames. With the knowledge gained in this workshop, the students will be ready to undertake their first data analysis. With over 2 million users worldwide R is rapidly becoming the leading programming language in statistics and data science. Every year, the number of R users grows by 40% and an increasing number of organizations are using it in their day-to-day activities.



Essentials of R Programming

- It is important to understand and practice this section thoroughly. This is the building block of the R programming knowledge. If it gets right, the user would face less trouble in debugging.



On Day 1: 12-03-2019

Morning session: Basics Of R Programming For Data Science

- Why Learn R
 - How To Install R/R Studio
 - How To Install R Packages
 - Basic Computations In R
- R has five basic or 'atomic' classes of objects. Wait, what is an object?
 - Everything you see or create in R is an object. A vector, matrix, data frame, even a variable is an object. R treats it that way.
- Data Types in R
 - Control Structures in R

WORKSHOP ON TESTING TOOLS

Topics covered: (13/03/2019)

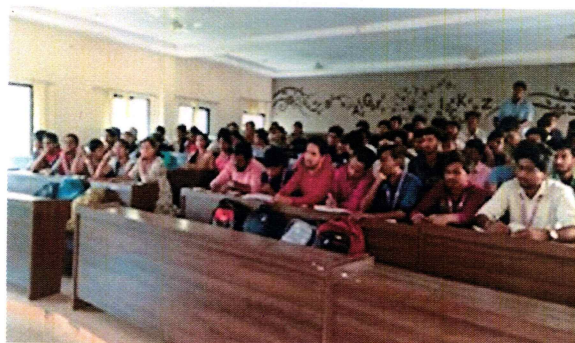
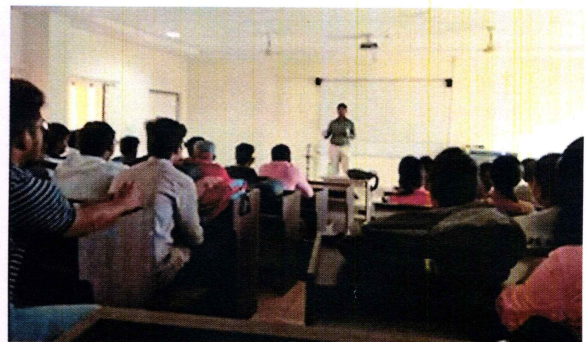
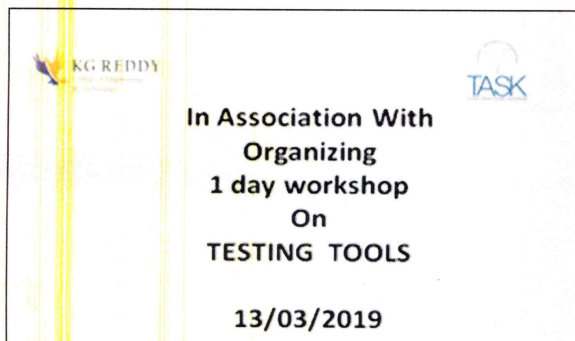
• **Testing:**

Understand testing is the process or method of finding error/s in a software application or program so that the application functions according to the end user's requirement.

Types of testing:

Understand different types of testing i.e. Unit testing, Integration testing, System testing. Sanity testing, Smoke testing, Interface testing, Regression testing, Beta/Acceptance testing.

The training and placement Cell of KGR CET is organizing a 1 day workshop for Computer Science Engineering task registered students on **TESTING TOOLS** in association with TASK on 13/03/2019.





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Engineering India's Changemakers

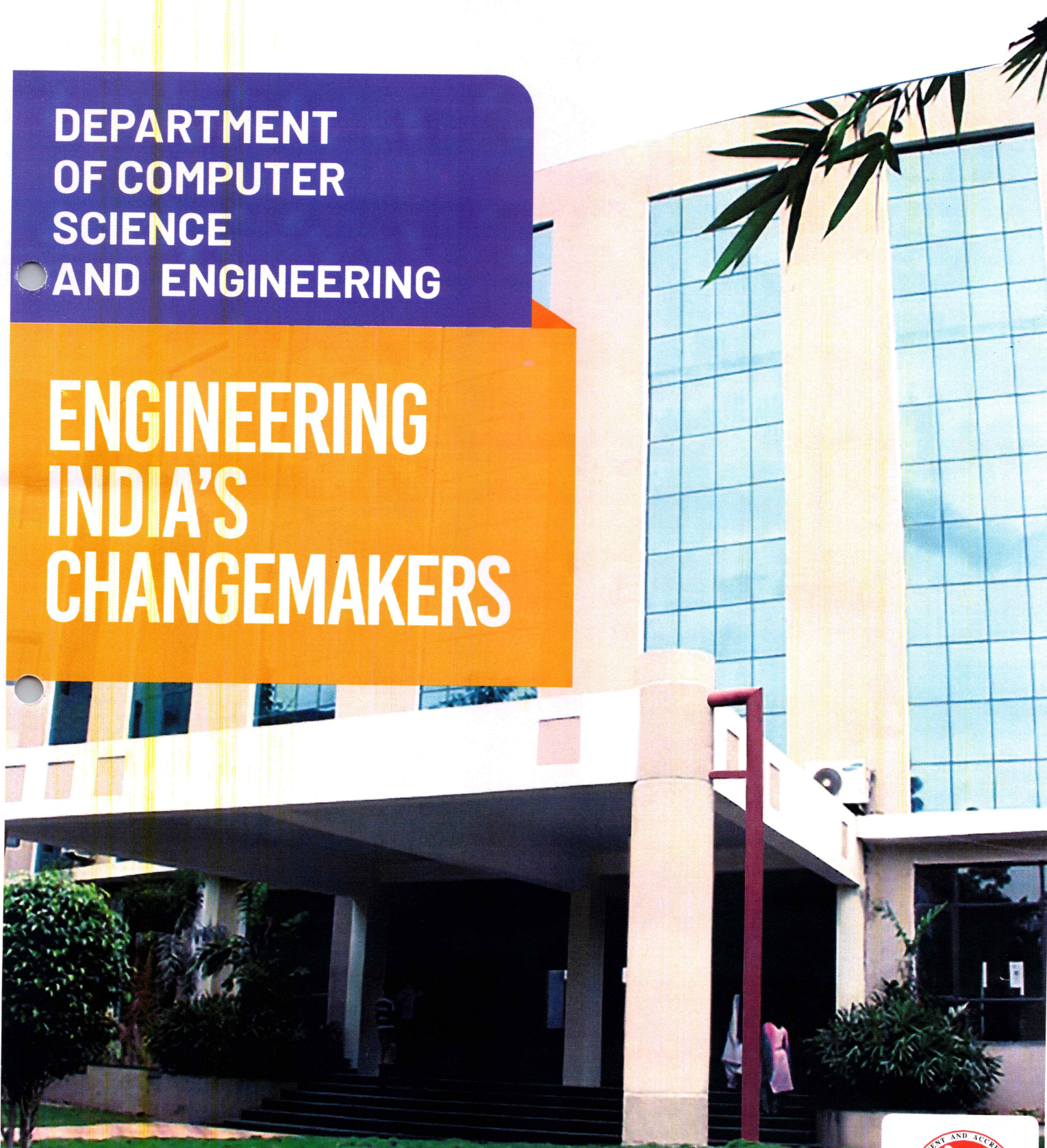
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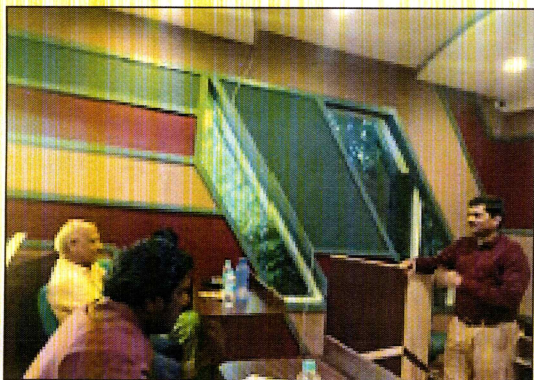
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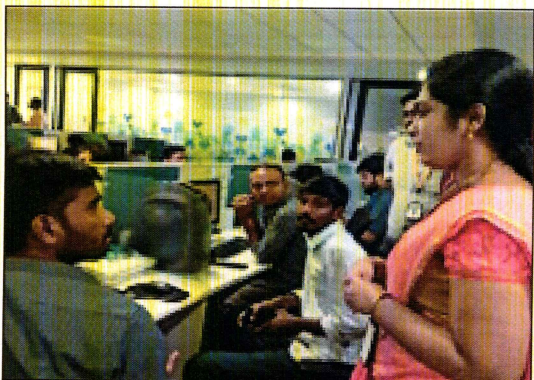
INDUSTRIAL VISIT



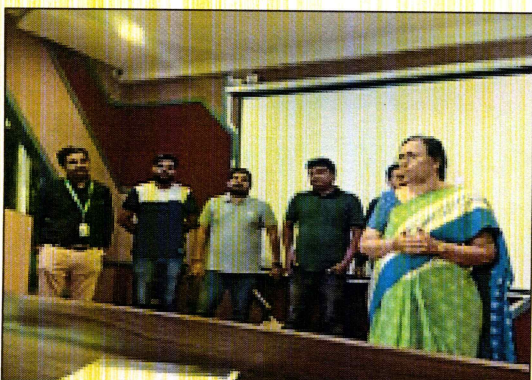
An industrial visit to “Caliber Technology Pvt. Ltd.” was organized by the computer science and engineering department of our college on 18th December 2019. 10 faculty members of CSE department along with industrial visit coordinator, Mr. Murli Krishna visited. This visit was to interact with the software 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 scenario. All the questions were answered and the doubts were cleared by them. Finally, all the faculty members were satisfied after the session.

ORIENTATION PROGRAM

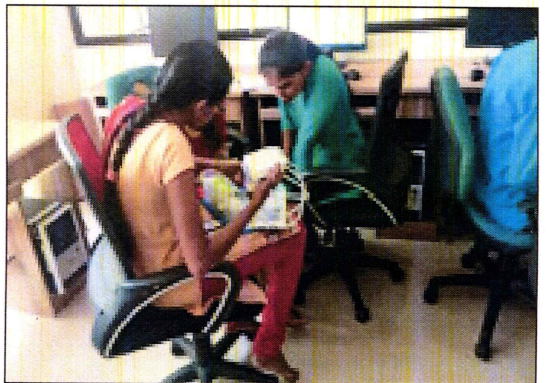
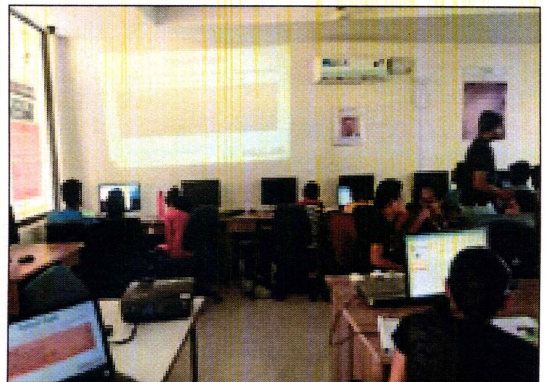
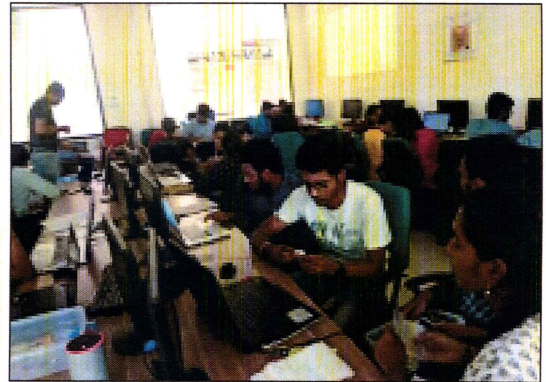
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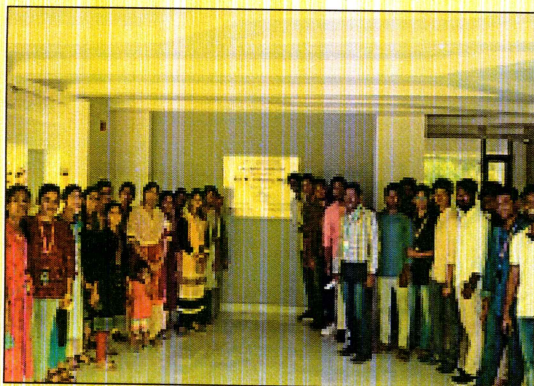
INDUSTRIAL VISIT



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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