CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY
(Autonomous)

Kokapet (Village), Gandipet, Hyderabad, Telangana - 500075

www.cbit.ac.in

5.1.3 The following Capacity Development and Skill Enhancement activities are organised for improving students capabilities

1. Soft skills, 2. Language and communication skills, 3. Life skills (Yoga, physical fitness, health and hygiene), 4. Awareness of trends in technology

Activity conducted for Capacity Development and Skill Enhancement during the academic year 2023-24

"AWARENESS OF TRENDS IN TECHNOLOGY"

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About CBIT(A)

Chaitanya Bharathi Institute of Technology (Autonomous) has an ecosystem which caters to Research, Consultancy, Start-Ups, Incubations, Strategic Collaborative Associations with Industries and Foreign Universities. CBIT(A) is accredited by NAAC with A++ Grade. The Institute is pioneering the development of an Artificial Heart in Collaboration with SHARE India / Pittsburgh University and Cornell University, USA. CBIT(A) has been standing as a temple of learning for the past 44 years. UGC has granted Autonomous status from the Academic Year 2013-14 onwards. The Faculty and Students have successfully executed Sponsored Research and Consultancy Projects, from various funding Agencies such as DRDO, ISRO, DST, AICTE and UGC. MHRD - Institute Innovation Cell (IIC), MSME - Business Incubation (BI), Hexagon 3D Innovation Lab, Cognizant Innovation Lab and Robotic Process Automation Lab have been established in the Research and Entrepreneurship Hub, for the Students and Faculty to pursue their Research Interests.

About CET Department

Department of Computer Engineering and Technology offers a BE CSE (IoT, Cyber Security Including Blockchain) undergraduate engineering programme. Since the academic year 2020-21 with an intake capacity of 60 seats. This programme combines Computer Science, with the functional and operational aspects of IoT, Cyber Security and Blockchain Technology. CET department has well equipped laboratories with necessary software's and committed, qualified well trained staff for teaching/learning process. CET department is consistently exploiting the trending curriculum, teaching, and learning practices, providing scope for the students to acquire knowledge and exploring better opportunities, for those aiming for admissions in prestigious institutions for their higher studies.

About Mechanical Department

The Department of Mechanical Engineering, CBIT is offering one undergraduate program B.E in Mechanical Engineering with an intake of 120 and two PG programmes; M.E in CAD/CAM and M.E in Thermal Engineering. The department has 45 faculty members out of whome 27 are Ph.Ds. 24 R&D sponsored projects worth Rs. 285 lakhs were sanctioned to the department, 28 patents were published and 9 patents were granted, 18 workshops and 4 FDPs were organized in the last 3 years. The Department is well equipped with all state-of-the-art equipment, Laboratories & workshops providing all necessary facilities to the students. The Hexagon Capability Center, India has opened an Innovation laboratory in the premises of the CBIT. The lab has been equipped with hardware and software worth Rs.6.50 crore. B.E Mechanical Engg. and M.E CAD/CAM Programmes were accredited by NBA.

About Letfix Technologies

Letfix Technologies strive to offer young minds with the whole pack of technical skill sets with utmost convenience. Letfix Technologies envisions being a catalyst augmenting technical development and have the tendency to transform and uplift young minds. Letfix Technologies aspires to be a premier centre of technical growth by offering quality technical education and research with application expertise in engineering and technology, where learners are nurtured to evolve into competent professionals.

About STTP

The Industrial Internet of Things (IIoT) is revolutionizing the industrial landscape by integrating smart devices, sensors, and data analytics into traditional industrial systems. This comprehensive course aims to provide engineering students with a solid understanding of IIoT concepts, technologies, and their applications. The course combines theoretical knowledge with practical hands-on sessions to equip participants with the necessary skills to design, implement, and manage IIoT systems.

Course Duration(90 hours)

- 45 hours of physical mode
- 45 hours of online support for group(s) projects

Certificate(s) of Participation

- STTP certificate
- Internship Certificate on successful completion of projects

Objectives of the STTP

- Understand the fundamentals of IoT, IIoT its components, and its impact on industrial systems.
- Gain insights into various IoT, IIoT architectures, protocols, and communication technologies.
- Learn to design and implement IoT, IIoT systems using sensors, actuators, and edge computing devices.
- Develop skills in data analytics, real-time monitoring, and predictive maintenance in IoT, IIoT environments.
- Explore security challenges and strategies for protecting IoT, IIoT systems from cyber threats.
- Acquire practical experience through hands-on sessions, project work, and case studies.

Outcomes of the STTP

On Successful completion of this program, participant will be able to:

- Analyse the basics, Architecture of IoT & IIoT.
- Evaluate smart objects and connecting smart objects.
- Build state of the art architecture in IIoT.
- Apply and modify protocols for IoT and IIoT.
- Design I/O interface and programming APIs, case studies on IoT & IIoT.

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ISO Certified 9001:2015
COMMITTED TO RESEARCH, INNOVATION AND EDUCATION 44 years

Department of Computer Engineering & Technology

and

Department of Mechanical Engineering

Jointly Organizes

One Week Short Term Training Program (STTP) on

IoT, IIoT and Applications

10 th - 15 th July, 2023

in association with

LETFIX Technologies
Chennai

॥ क्षणे क्षणे यन्नवतामुपैतत तदेव रूपं रमणीयतायाः ॥
kṣaṇe kṣaṇe yan navatām upaiti tad eva rūpaṃ ramaṇiyatāyāḥ
That which becomes new every moment is the very form of beauty
Māgha (7th Century Indian Poet)

For Faculty / Research Scholars / Students / Industry People

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PATRON

Prof. C. V. Narasimhulu, Principal, CBIT(A)

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Mr. Aditya Raj Bhosle, CET
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STTP OUTLINE (WITH HAND-ON)

nings: 9:15am-12:45pm, 1:00pm-5:00pm

Day-1: Introduction to IoT

Fundamentals of IoT, including its definition, key concepts, benefits, applications across industries, its relation to Industry 4.0, challenges and opportunities in implementation, IoT system architecture communication protocols , wireless technologies and IoT data management and integration.

Day-2: Edge Computing and Data Analytics in IoT

Edge computing in IoT, data preprocessing and analytics, real-time monitoring and visualization, implementing edge computing, and data analytics platforms, security challenges including authentication, access control, encryption, privacy considerations, and regulatory compliance in IoT systems.

Day-3: Introduction about Industrial Automation and its Applications

Components such as breakers (MCB, MCCB, ELCB), contactors (AC and DC), relays, indication lamps, industrial switches, limit switches, and SMPS, including their wiring, control circuits, and working principles.

Day-4: Sensors

Sensor types include proximity , fiber optic, laser through-beam, diffuse-type photoelectric, and retro-reflective sensors, covering their control circuit, working principle, input types (digital/analog), characteristic,sensor teaching, output reading, and connections with lamps, load, contactors, and door automation.

Day-5: Control circuit for Timer/Counter

Control circuit for timer/counter, temperature controller, various timer types, PID-based heater control, programmable logic controller (PLC), ladder logic circuit, software installation, PLC wiring, human-machine interface (HMI), programming, communication circuits, and PLC-HMI interfacing.

Day-6: Industrial Project

Live Industrial projects for each batch

Who can attend?

Faculty, Research Scholars, Students and Industry People

Registration Fee:

- Rs 250 for faculty
- Rs 2000 for others

Registration Link: https://forms.gle/cWfr3vfR1Krd4SsdA

For Registration & Other Details, Contact:

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Department of Computer Engineering &Technology

and

Department of Mechanical Engineering

Jointly Organize

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Registration Form

Name: .....

Designation: .....

Organisation: .....

Address: .....

.....

.....

Mobile No: .....

Email ID: .....

Signature of Sponsoring Authority

Signature of Participant

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DEPARTMENT OF COMPUTER ENGINEERING & TECHNOLOGY

and

DEPARTMENT OF MECHANICAL ENGINEERING

jointly organize

Six-Days (45 Hours) Short Term Training Program (STTP)

on

IoT, IIoT and Applications from 10-15 July, 2023

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LETFIX TECHNOLOGIES

Chennai

Inaugural Session

10 July 2023

09:30 AM	Inviting the Dignitaries	**Ms. Kavita Agrawal, Coordinator** Asst. Professor, CET Dept., CBIT(A)
		Invocation (Prayer) by P. Digna, Student Coordinator, CET Dept., CBIT(A)
09:35 AM	Address by	**Prof. C. V. Narasimhulu, Patron** Principal, CBIT(A)
09.40 AM	Address by	**Prof. M. Subramaniam, Convener** Professor & Head, Computer Engineering and Technology Dept., CBIT(A)
09:45 AM	Address by	**Prof. P. Prabhakar Reddy, Convener** Professor & Head, Mechanical Engineering Dept., CBIT(A)
09:50 AM	About STTP	**Letfix Technologies Chennai**
09:55 AM	Vote of Thanks	**M. Rishikesh, Student Coordinator** CET Dept., CBIT(A)

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DEPARTMENT OF COMPUTER ENGINEERING & TECHNOLOGY

and

DEPARTMENT OF MECHANICAL ENGINEERING

jointly organize

Six-Days (45 Hours) Short Term Training Program (STTP)

on

IoT, IIoT and Applications from 10-15 July, 2023

in association with

LETFIX TECHNOLOGIES

Chennai

Date: 13-07-2023

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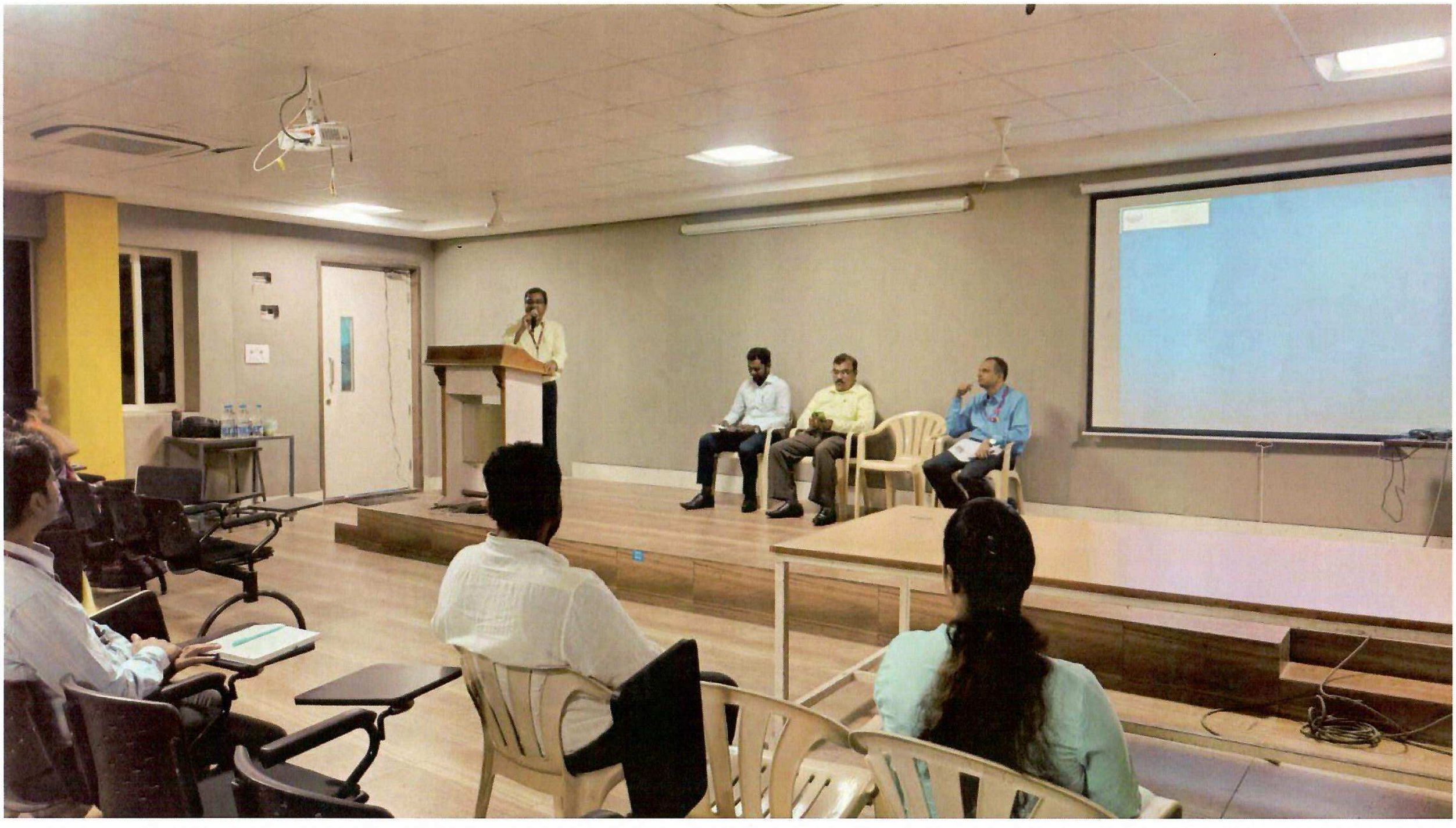

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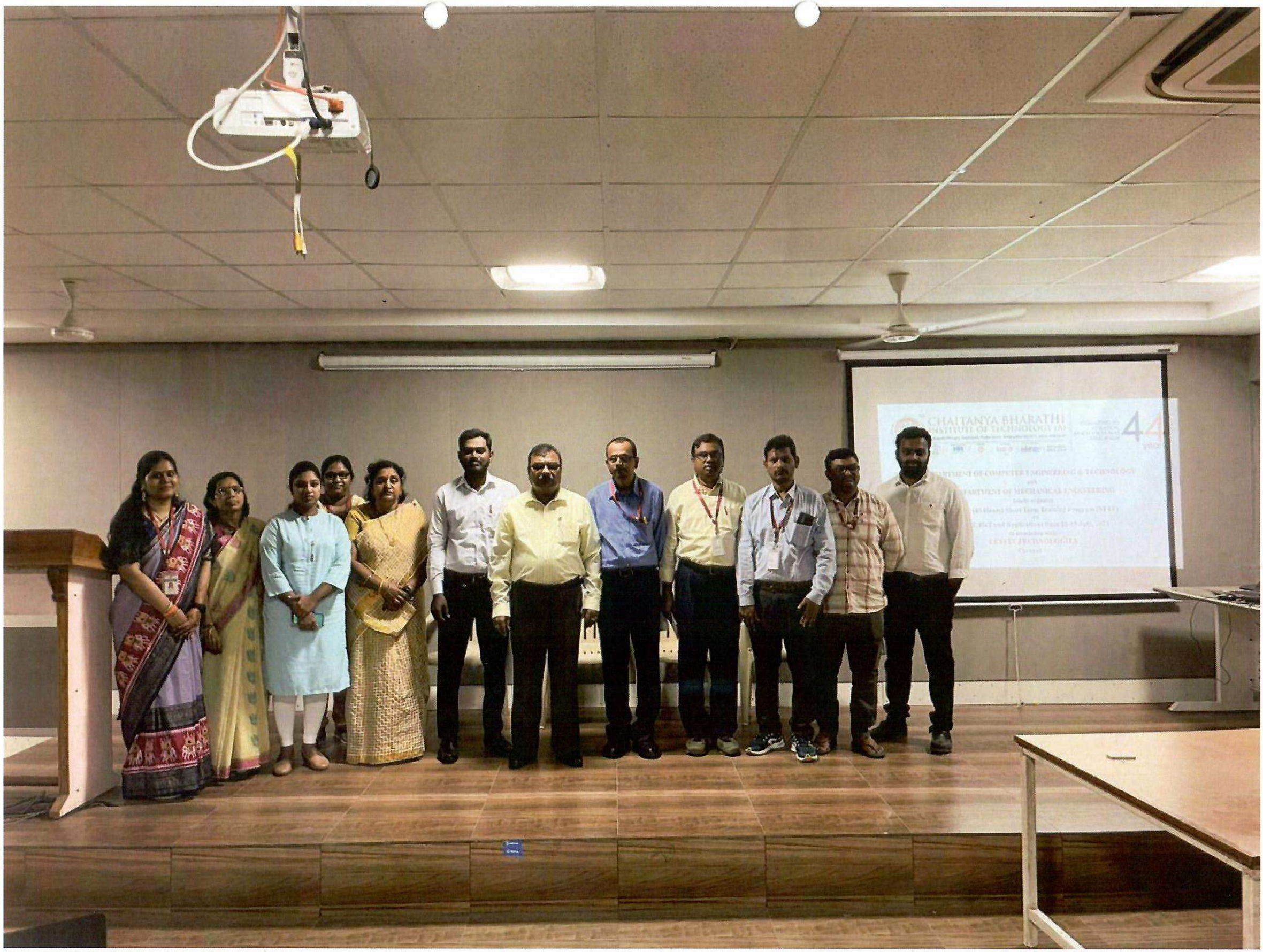
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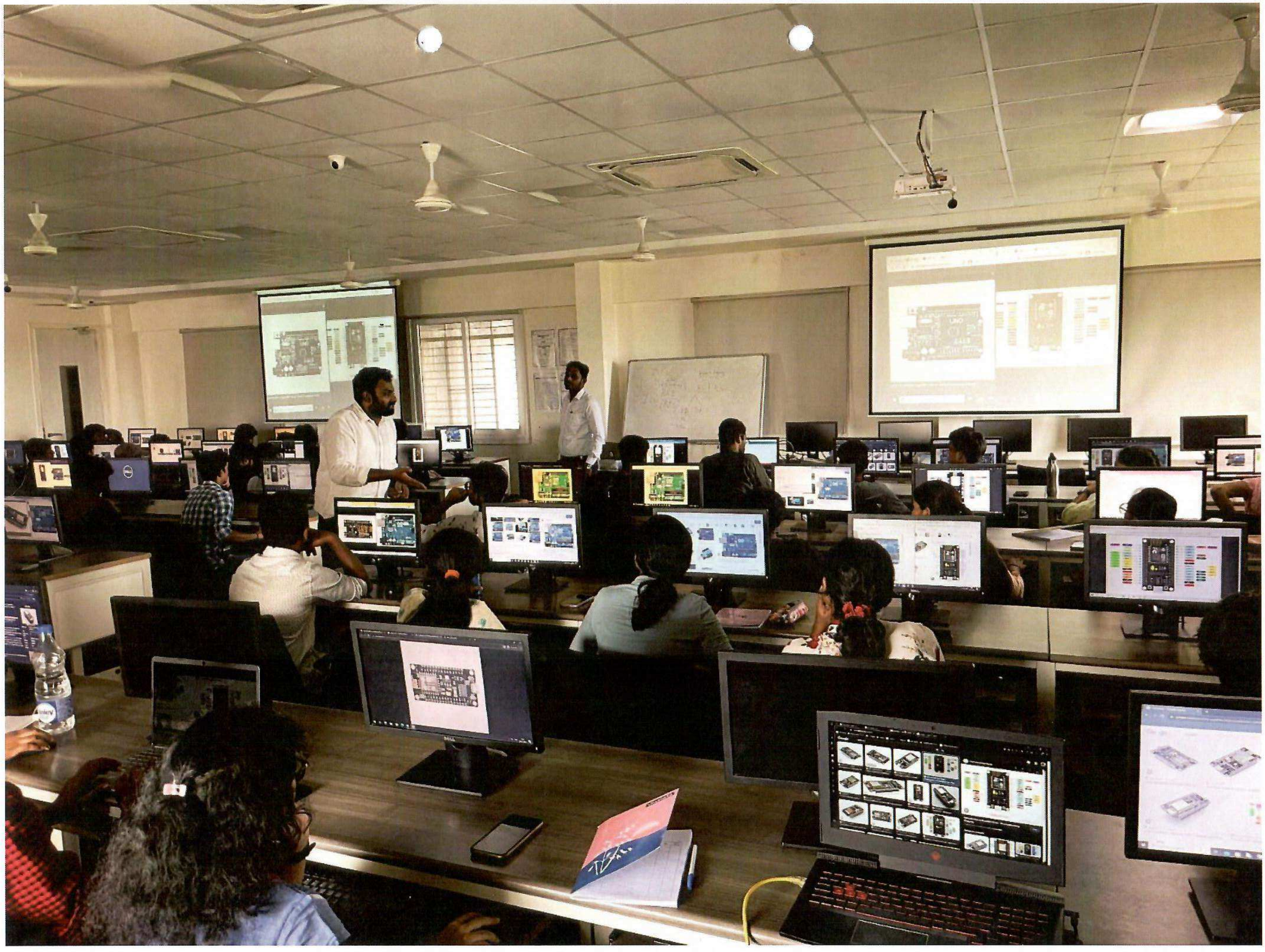

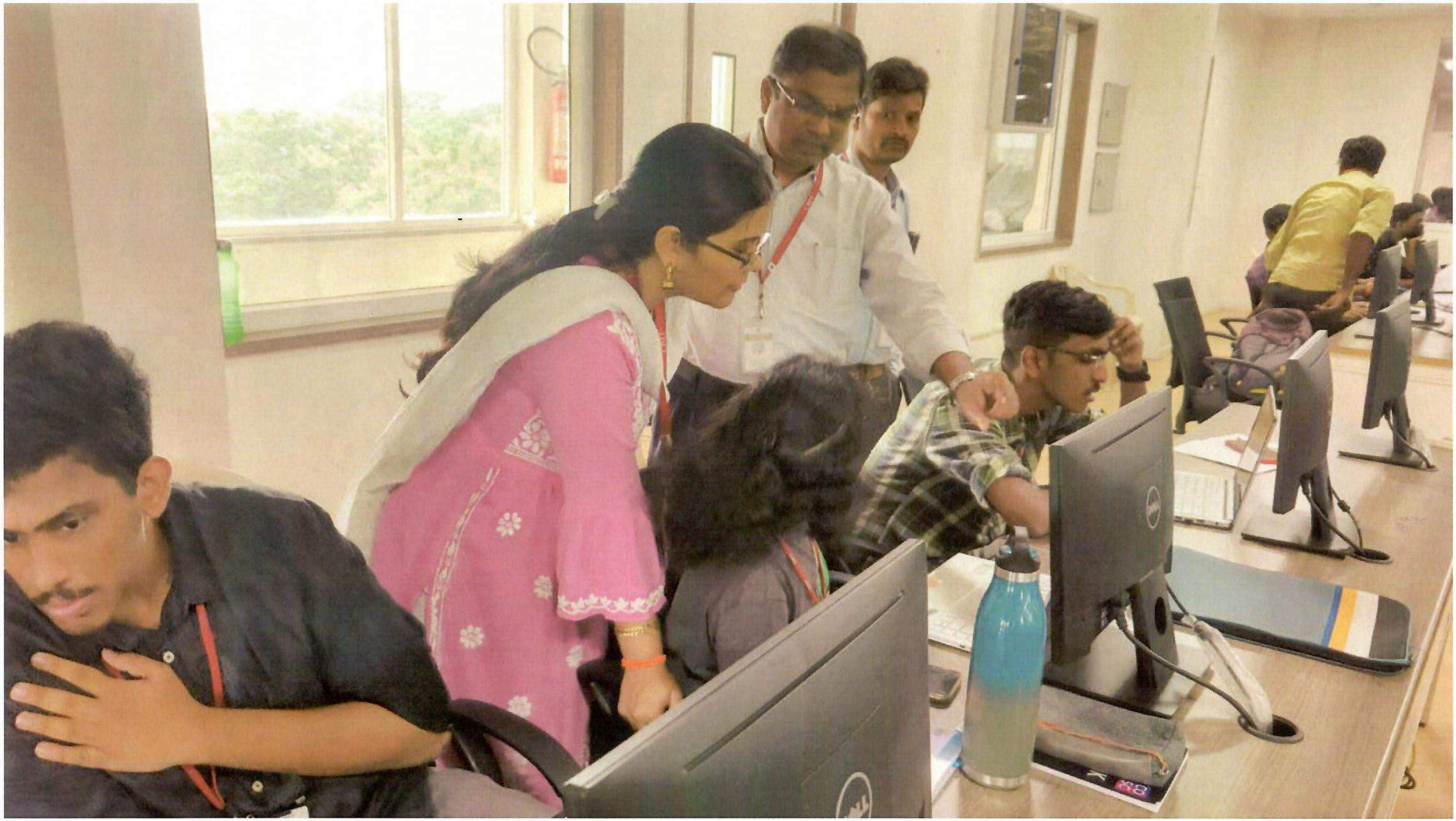

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25 Jul 2023 - Page 2

భవిషత్తు లో ఐఐఓటి ధీ చాల ముఖ్యమైన పాత్ర పోషిస్తున్నది..శ్రీ ఎస్ రాకేష్..

ప్రజావినికిడి,(మెహదీపట్నం):
సీబీఐటి లో గల సిఈటి విభాగం గత వారం రోజులుగా నిర్వహిస్తున్న ఇఓటి అలాగే ఐఐఓటి మీద కార్యశాల ముగిసినది . ఈ కార్యక్రమ నిర్వాహకులు ప్రొఫెసర్ ఎన్ రాము దేవి మాట్లాడుతూ,ఐఐఓటి అనగా ఇండస్ట్రియల్ ఇంటర్నెట్ ఆఫ్ థింగ్స్ మరియు స్మార్ట్ పరికరాలు,సెన్సార్లు మరియు డేటాను సమగ్రపరచడం కోసం ఎంతో ముఖ్యమైన పరికరం అని తెలిపారు.సిఈటి విభాగాధిపతి ప్రొఫెసర్ ఎమ్ సుబ్రహ్మణ్యం మాట్లాడుతూ,వివిధ ఆర్కిటెక్చర్లు, ప్రోటోకాల్లు కమ్యూనికేషన్ టెక్నాలజీ ఉపయోగించి ఐఐఓటి రూపొందించడం అలాగే అమలు చేయడం ఈ కార్యశాలలో చూపించారు అని తెలిపారు. లెట్‌ఫిక్స్ టెక్నాలజీ నుండి శ్రీ ఎస్ రాకేష్ ముఖ్య అతిది గా విచ్చేసి ఐఐఓటి యొక్క ఆర్కిటెక్చర్,ఎడ్జ్ కంప్యూటింగ్ గురించి వివరించారు.ఐఓటి ప్రపంచ నాల్గవ పారిశ్రామిక విప్లవంలో ముఖ్యమైన భాగం అని తెలిపారు. ఐఐఓటి మీద వ్యాజ్యమును పూర్తిగా అధ్యయనం చేయుట మరియు ప్రాజెక్ట్ వర్క్ చేసినట్లు అధ్యాపక నమన్వయకర్త శ్రీమతి కవితా అగర్వాల్ చెప్పారు. ఈ కార్యక్రమంనికి ఇతర అధ్యాపక నమన్వయకర్తలు శ్రీమతి పి విమల మనోహర రూత్,శ్రీమతి జి మమత, డాక్టర్ జి జయ రావు, శ్రీ పి నర్సింహులు తమ విధులు నిర్వహించినట్లు ప్రొఫెసర్ ఎమ్ సుబ్రహ్మణ్యం తెలిపారు.సి వి ఐ టి కళాశాల ప్రిన్సిపాల్ ప్రొఫెసర్ సి వి నర్సింహులు నిర్వహకులను అభినందిచారు.

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ముద్ర

మంగళవారం
25.07.2023

న్యూస్ పాయింట్

భవిష్యత్తులో కీలకం కానున్న ఐఐఓటీ

హైదరాబాద్, ముద్ర: భవిషత్తులో సెన్సార్లు. డేటాను సమగ్రపరచడంలో ఇండస్ట్రియల్ ఇంటర్నెట్ ఆఫ్ థింగ్స్ (ఐఐఓటీ) ప్రాముఖ్యత కలిగి ఉందనుం దని ప్రొఫెసర్ ఎన్ రమాదేవి తెలిపారు. సీబీఐటీలో గల సీఈటీ విభాగం గత వారం రోజులుగా నిర్వహిస్తున్న ఈఓటీ. ఐఐఓటీమీద కార్యశాల ముగిసింది. ఈ కార్యక్రమ నిర్వాహకురాలు ప్రొఫెసర్ ఎన్ రమాదేవి మాట్లాడుతూ ఇండస్ట్రియ ల్ ఇంటర్నెట్ ఆఫ్ థింగ్స్ (ఐఐఓటీ). స్మార్ట్ పరికరాలు. సెన్సార్లు. డేటాను సమగ్రపరచడం కోసం ఎంతో ముఖ్య మైనవని చెప్పారు. సీఈటీ విభాగాధిపతి ప్రొఫెసర్ ఎమ్ సుబ్రహ్మణ్యం మాట్లాడు తూ వివిధ ఆర్కిటెక్చర్లు. ప్రొటోకాల్స్. కమ్యూనికేషన్ టెక్నాలజీని ఉపయోగిం చి ఐఐఓటీ రూపొందించడం. అమలు చేయడం ఈకార్యశాలలో చూపించారని తెలిపారు. లెట్‌ఫిక్స్ టెక్నాలజీ నుండి ఎస్ రాకేష్ ముఖ్య అతిథిగా విచ్చేసి ఐఐఓటీ ఆర్కిటెక్చర్ .ఎడ్జ్ కంప్యూటింగ్ గురించి వివరించారు. ప్రపంచనాలుగో పారిశ్రామిక విప్లవంలో ఐఐఓటీ ముఖ్య మైన భాగమని తెలిపారు. ఐఐఓటీ మీద వ్యాఖ్యాలను పూర్తిగా అధ్యయనం చేసి. ప్రాజెక్ట్ వర్క్ చేసినట్లు అధ్యాపక సమన్వ యకర్త కవితా అగర్వాల్ చెప్పారు. ఈ కార్యక్రమంనికి అధ్యాపక సమన్వయక ర్తలుగా పీ. విమల మనోహర రూత్ .జీ. మమత.డాక్టర్ జీ.జయరావు. పీ.నర్సిం హులు తమ విధులు నిర్వహించినట్లు ప్రొఫెసర్ ఎమ్ సుబ్రహ్మణ్యం తెలిపారు. సీబీఐటీ కళాశాల ప్రిన్సిపాల్ ప్రొఫెస ర్ సీవీ నర్సింహులు నిర్వహకులను అభినందిచారు.

భవిష్యత్తు లో ఐఐఓటి ధీ చాల ముఖ్యమైన పాత్ర పోషిస్తున్నది - ఎస్ రాకేష్

అక్షర శరం, హైదరాబాద్, జూలై 24 : సీఈఐటి లో గల సిఈటి విభాగం గత వారం రోజులుగా నిర్వహిస్తున్న ఇఓటి మరియు ఐఐఓటి మీద కార్యశాల ముగిసినది . ఈ కార్యక్రమ నిర్వాహకులు ప్రొఫెసర్ ఎన్ రాము దేవి మాట్లాడుతూ ఐఐఓటి అనగా ఇండస్ట్రియల్ ఇంటర్నెట్ ఆఫ్ థింగ్స్ మరియు స్మార్ట్ పరికరాలు, సెన్సార్లు మరియు డేటాను సమగ్రపరచడం కోసం ఎంతో ముఖ్యమైన పరికరం అని తెలిపారు. సిఈటి విభాగాధిపతి ప్రొఫెసర్ ఎమ్ సుబ్రహ్మణ్యం మాట్లాడుతూ వివిధ ఆర్కిటెక్చర్లు, ప్రోటోకాల్లు మరియు కమ్యూనికేషన్ టెక్నాలజీ ఉపయోగించి ఐఐఓటి రూపొందించడం మరియు అమలు చేయడం ఈ కార్యశాలలో చూపించారు అని తెలిపారు. లెట్స్‌ఫిక్స్ టెక్నాలజీ నుండి శ్రీ ఎస్ రాకేష్ ముఖ్య అతిది గా విచ్చేసి ఐఓటి యొక్క ఆర్కిటెక్చర్ , ఎడ్జ్ కంప్యూటింగ్ గురించి వివరించారు. ఐఓటి ప్రపంచ నాల్గవ పారిశ్రామిక విప్లవంలో ముఖ్యమైన భాగం అని తెలిపారు. ఐఐఓటి మీద వ్యాఖ్యమును పూర్తిగా అధ్యయనం చేయుట మరియు ప్రాజెక్ట్ వర్క్ చేసినట్లు అధ్యాపక సమన్వయకర్త శ్రీమతి కవితా అగర్వాల్ చెప్పారు. ఈ కార్యక్రమంనికి ఇతర అధ్యాపక సమన్వయకర్తలు గా శ్రీమతి పి విమల మనోహర రాత్ , శ్రీమతి జి మమత , డాక్టర్ జి జయ రావు, శ్రీ పి నర్సింహులు తమ విధులు నిర్వహించినట్లు ప్రొఫెసర్ ఎమ్ సుబ్రహ్మణ్యం తెలిపారు. సి టి ఐ టి కళాశాల ప్రిన్సిపాల్ ప్రొఫెసర్ సి వి నర్సింహులు నిర్వాహకులను అభినందించారు.

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DEPARTMENT OF COMPUTER ENGINEERING & TECHNOLOGY

and

DEPARTMENT OF MECHANICAL ENGINEERING

in association with LETFIX TECHNOLOGIES, Chennai

-: QUIZ :-

1. What does IoT stand for?
   a. Internet of Things
   b. Internet of Technology
   c. Internet of Telecommunications
   d. Internet of Transfers

2. Which of the following is a key component of an IoT system?
   a. Sensors and actuators
   b. Mobile applications
   c. Cloud servers
   d. All of the above

3. Blynk is a platform that enables IoT applications to be controlled through:
   a. Web browsers
   b. Mobile apps
   c. Smartwatches
   d. Smart TVs

4. Blynk app supports which of the following platforms?
   a. Android
   b. iOS
   c. Both Android and iOS
   d. Windows only

5. Blynk uses which type of connectivity protocol to communicate with IoT devices?
   a. Wi-Fi
   b. Bluetooth
   c. Zigbee
   d. All of the above

6. Which of the following programming languages is commonly used with Blynk app?
   a. Java
   b. Python
   c. C++
   d. All of the above

7. Blynk provides a drag-and-drop interface for:
   a. Creating IoT applications
   b. Configuring Wi-Fi networks
   c. Installing firmware on devices
   d. None of the above

8. What is a widget in the context of Blynk app?
   a. A physical IoT device
   b. A graphical user interface element
   c. A server used for data storage
   d. A programming language used with Blynk

9. Which of the following is NOT a type of widget supported by Blynk app?
   a. Button
   b. Gauge
   c. Camera
   d. Slider

10. Blynk supports integration with popular IoT development boards such as:
    a. Arduino
    b. Raspberry Pi
    c. ESP8266
    d. All of the above

11. Which microcontroller is used in Arduino Uno?
    a. ATmega328P
    b. ESP8266
    c. STM32F103C8T6
    d. PIC18F4550

12. How many analog input pins are available on Arduino Uno?
    a. 4
    b. 6
    c. 8
    d. 10

13. Which programming language is commonly used with Arduino Uno?
    a. Python
    b. C++
    c. Java
    d. JavaScript

14. Arduino Uno can be powered using:
    a. USB connection
    b. 9V battery
    c. External power supply
    d. All of the above

15. How many digital input/output pins are available on Arduino Uno?
    a. 6
    b. 12
    c. 14
    d. 16

16. Arduino Uno uses which development environment?
    a. Arduino IDE
    b. Raspberry Pi IDE
    c. Node-RED
    d. Visual Studio Code

17. What is the operating voltage of Arduino Uno?
    a. 3.3V
    b. 5V
    c. 9V
    d. 12V

18. Which pin is typically used for PWM output on Arduino Uno?
    a. A0
    b. A1
    c. D5
    d. D9

19. Arduino Uno has built-in support for which communication protocol?
    a. SPI
    b. I2C
    c. UART
    d. All of the above

20. What is the maximum clock speed of the microcontroller used in Arduino Uno?
    a. 8 MHz
    b. 12 MHz
    c. 16 MHz
    d. 20 MHz

21. NodeMCU is based on which microcontroller?
    a. ATmega328P
    b. ESP8266
    c. STM32F103C8T6
    d. PIC18F4550

22. Which programming language is commonly used with NodeMCU?
    a. Python
    b. C++
    c. Java
    d. Lua

23. NodeMCU supports which wireless communication protocol?
    a. Wi-Fi
    b. Bluetooth
    c. Zigbee
    d. NFC

24. How many general-purpose input/output (GPIO) pins are available on NodeMCU?
    a. 4
    b. 8
    c. 10
    d. 16

25. NodeMCU can be programmed using which development environment?
    a. Arduino IDE
    b. Raspberry Pi IDE
    c. Node-RED
    d. Visual Studio Code

26. NodeMCU can be powered using:
    a. USB connection
    b. 9V battery
    c. External power supply
    d. All of the above

27. What is the operating voltage of NodeMCU?
    a. 3.3V
    b. 5V
    c. 9V
    d. 12V

28. NodeMCU has built-in support for which communication protocols?
    a. SPI
    b. I2C
    c. UART
    d. All of the above

29. What is the maximum clock speed of the microcontroller used in NodeMCU?
    a. 8 MHz
    b. 12 MHz
    c. 16 MHz
    d. 80 MHz

30. Which pin is typically used for PWM output on NodeMCU?
    a. D0
    b. D5
    c. D9
    d. D13

31. What is the primary function of an MCB in an electrical circuit?
    a) Voltage regulation
    b) Power generation
    c) Circuit protection
    d) Energy storage

32. MCBs are commonly used in industrial automation to protect against:
    a) Overvoltage
    b) Overcurrent
    c) Undercurrent
    d) Power surges

33. MCBs are designed to trip and open the circuit when:
    a) The voltage drops below a threshold level
    b) The current exceeds a predetermined value
    c) The power factor becomes unbalanced
    d) The temperature rises above a certain limit

34. What is the typical operating mechanism of an MCB?
    a) Magnetic tripping
    b) Thermal tripping
    c) Electronic tripping
    d) All of the above

35. Which of the following is NOT a typical characteristic of an MCB?
    a) Current rating
    b) Breaking capacity
    c) Coil voltage
    d) Number of poles

36. Which type of lamp is commonly used in industrial automation due to its durability and long life?
    a) Incandescent lamp
    b) Fluorescent lamp
    c) LED lamp
    d) Halogen lamp

37. Industrial automation lamps are designed to operate under:
    a) Low voltage only
    b) High voltage only
    c) Variable voltage conditions
    d) Direct current (DC) supply

38. Which of the following is a common color temperature for industrial automation lamps?
    a) Warm white
    b) Cool white
    c) Daylight
    d) All of the above

39. Industrial automation lamps are often designed to be:
    a) Dimmable
    b) Flicker-free
    c) Waterproof
    d) All of the above

40. Which of the following is NOT a common mounting option for industrial automation lamps?
    a) Surface mount
    b) Pendant mount
    c) Ceiling mount
    d) Wall mount

41. What is the primary function of a relay in industrial automation?
    a) To control motor speed
    b) To provide overload protection
    c) To switch electrical circuits based on control signals
    d) To convert AC power to DC power

42. Which type of relay is commonly used in industrial automation for switching high currents?
    a) Solid-state relay
    b) Electromechanical relay
    c) Reed relay
    d) Time delay relay

43. Industrial automation relays are typically controlled by which type of input signal?
    a) Analog signal
    b) Digital signal
    c) Pneumatic signal
    d) Magnetic signal

44. Which of the following is NOT a typical characteristic of an industrial automation relay?
    a) Contact rating
    b) Coil voltage
    c) Switching speed
    d) Operating temperature range

45. Which type of relay contact is typically used for controlling AC loads in industrial automation?
    a) Normally open (NO)
    b) Normally closed (NC)
    c) Changeover (CO)
    d) Both NO and NC

46. What is the primary function of a contactor in industrial automation?
    a) To control the speed of a motor
    b) To provide overload protection
    c) To switch high currents on and off
    d) To convert DC power to AC power

47. Which type of contactor is commonly used in industrial automation for controlling three-phase motors?
    a) Magnetic contactor
    b) Solid-state contactor
    c) Time delay contactor
    d) Thermal overload contactor

48. Contactors are typically controlled by which type of input signal?
    a) Analog signal
    b) Digital signal
    c) Pneumatic signal
    d) Magnetic signal

49. Which of the following is NOT a typical characteristic of an industrial automation contactor?
    a) Current rating
    b) Coil voltage
    c) Number of poles
    d) Operating frequency

50. Which type of contactor contact is typically used for controlling AC loads in industrial automation?
    a) Normally open (NO)
    b) Normally closed (NC)
    c) Changeover (CO)
    d) Both NO and NC

51. What is the primary advantage of using SMPS over linear power supplies in industrial automation?
    a) Higher efficiency
    b) Lower cost
    c) Smaller size
    d) Higher power output

52. Which of the following devices is used to convert AC voltage to DC voltage in an SMPS?
    a) Transformer
    b) Capacitor
    c) Rectifier
    d) Transistor

53. Which switching technique is commonly used in SMPS for voltage regulation in industrial automation?
    a) Pulse width modulation (PWM)
    b) Amplitude modulation (AM)
    c) Frequency modulation (FM)
    d) Phase modulation (PM)

54. Which component in an SMPS stores energy and smooths out the output voltage?
    a) Transformer
    b) Inductor
    c) Capacitor
    d) Diode

55. Which of the following is NOT a typical application of SMPS in industrial automation?
    a) Powering PLCs (Programmable Logic Controllers)
    b) Powering motor drives
    c) Powering sensors
    d) Powering actuators

56. What is the purpose of the OMRON PLC Zen Support Software?
    a) Programming and configuring OMRON PLCs
    b) Monitoring PLC operation in real-time
    c) Troubleshooting PLC communication issues
    d) All of the above

57. Which of the following programming languages is commonly used with OMRON PLCs?
    a) Ladder diagram (LD)
    b) Structured text (ST)
    c) Function block diagram (FBD)
    d) All of the above

58. The Zen Support Software allows users to create, edit, and download:
    a) Ladder logic programs
    b) Human-machine interface (HMI) screens
    c) Communication protocols
    d) Motor control algorithms

59. Which of the following programming interfaces does the Zen Support Software provide?
    a) Graphical user interface (GUI)
    b) Command-line interface (CLI)
    c) Application programming interface (API)
    d) Web-based interface

60. The Zen Support Software supports which of the following OMRON PLC series?
    a) Zen
    b) CP1E
    c) CJ1
    d) All of the above

61. Ladder logic programming is commonly used for:
    a) Controlling industrial processes
    b) Creating web applications
    c) Designing printed circuit boards (PCBs)
    d) Developing mobile applications

62. In ladder logic programming, which of the following represents a coil or output device?
    a) Normally open (NO) contact
    b) Normally closed (NC) contact
    c) Horizontal line
    d) Vertical line

63. Which of the following ladder logic instructions is used for performing a comparison operation?
    a) Timer
    b) Counter
    c) Jump
    d) Compare

64. The concept of "rungs" in ladder logic refers to:
    a) Individual ladder diagram instructions
    b) Physical steps or levels in a ladder structure
    c) Sequential execution of ladder logic code
    d) PLC scan cycle

65. Which of the following is NOT a typical ladder logic instruction?
    a) Output (OUT)
    b) Timer (TON)
    c) Counter (CTU)
    d) Decision (IF)

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ISO Certified 9001:2015
COMMITTED TO RESEARCH, INNOVATION AND EDUCATION 44 years

Six-Day Hands-On Short Term Training Program (STTP)
on
IoT, IIoT and Applications from 10-15 July, 2023
jointly organized by
DEPARTMENT OF COMPUTER ENGINEERING & TECHNOLOGY
and
DEPARTMENT OF MECHANICAL ENGINEERING
in association with LETFIX TECHNOLOGIES, Chennai

Participant Feedback

Name: V. Mahesh
Email-id: vanekarmahesh@gmail.com
Dept: Computer Engineering and Technology
Designation: Student
College: Chaitanya Bharathi Institute of Technology
Contact number: 7416266473

Directions: Tick the appropriate choices given and provide your feedback at the bottom of the page.

Feedback for Trainer

-Does the trainer/mentor way of teaching the course met with your expectations?

Highly satisfied	Satisfied	Neither satisfied nor dissatisfied	Dissatisfied	Highly dissatisfied
	✓			

Feedback for session

-Were the contents explained with good number of real time examples?

Highly satisfied	Satisfied	Neither satisfied nor dissatisfied	Dissatisfied	Highly dissatisfied
✓				

Sessions in Future

-Would you like to attend the sessions on other advanced topics of Industrial Automation and Robotics?

Very interested	Interested	Neither interested nor disinterested	Disinterested	Highly disinterested
	✓			

-Are you interested to learn Internet of Things and IIoT with Arduino/Raspberry pi/PLC?

Very interested	Interested	Neither interested nor disinterested	Disinterested	Highly disinterested
✓				

Your valuable feedback

What do you think were the weaknesses of this training? No, In my view all are perfectly good.
What do you think were the strengths of this training? Acquired good knowledge of BOT System & sensors
Any additional comments or suggestions? Not There

Signature of the Participant: V. Mahesh

Date: 15/7/23

We appreciate your valuable feedback!

CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY (A)

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COMMITED TO RESEARCH, INNOVATION AND EDUCATION 44 years

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Participant Feedback

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Dept: CET

Designation:

College: CBIT

Contact number: 8555908575

Directions: Tick the appropriate choices given and provide your feedback at the bottom of the page.

Feedback for Trainer

-Does the trainer/mentor way of teaching the course met with your expectations?

Highly satisfied	Satisfied ✓	Neither satisfied nor dissatisfied	Dissatisfied	Highly dissatisfied

Feedback for session

-Were the contents explained with good number of real time examples?

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Sessions in Future

-Would you like to attend the sessions on other advanced topics of Industrial Automation and Robotics?

Very interested	Interested ✓	Neither interested nor disinterested	Disinterested	Highly disinterested

-Are you interested to learn Internet of Things and IIoT with Arduino/Raspberry pi/PLC?

Very interested	Interested ✓	Neither interested nor disinterested	Disinterested	Highly disinterested

Your valuable feedback

What do you think were the weaknesses of this training? Nothing
What do you think were the strengths of this training? skills
Any additional comments or suggestions? No.

Signature of the Participant: Adhitya.

Date: 15/07/2023

We appreciate your valuable feedback!

Department of Computer Engineering & Technology

One Week Short Term Training Program (STTP) on IoT, IIoT and Applications

B.E. COMPUTER SCIENCE AND ENGINEERING (IOT & CS-BCT), 2022-2023, IV-SEM

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1	160121749001	ADIREDDI VIDYA SARIKA .	Y	37
2	160121749002	AKULA VARA LAKSHMI .	Y	35
3	160121749003	BHOGAVALLI JYOTHI SAMJYOTHA .	Y	37
4	160121749004	BIRELLI KEERTHANA .	Y	33
5	160121749005	BUKYA POOJITHA .	Y	33
6	160121749006	GOWDUCHERUVU SREE DEEKSHI REDDY .	Y	33
7	160121749007	KAREN R JOHNSON .	Y	34
8	160121749008	KAVYA SRI YAKKALA .	Y	34
9	160121749009	MARAGANI VINEETHA SAI .	Y	33
10	160121749010	MASUNA HEMASHREE .	Y	29
11	160121749011	MUDIMALA SANJANA REDDY .	Y	35
12	160121749012	PADAVALA DIGNA .	Y	27
13	160121749013	PARSHI BHAVISHYA .	Y	35
14	160121749014	RAHAMATE HASRATH .	Y	31
15	160121749015	SHRINA TYARLA .	Y	38
16	160121749016	SILUVERU SUSHMA .	Y	28
17	160121749018	VEERAVELLY KUSUMITHA .	Y	30
18	160121749019	YALAMARTHI AKSHAYA .	Y	28
19	160121749020	AMMAPURAM KHANISHRAM .	Y	29
20	160121749021	ANDE BHANU PRAKASH .	Y	34
21	160121749022	BOLLAYADULA SHYAM PRAKASH .	Y	45
22	160121749023	BATHULA KARTHIKENDER REDDY .	Y	28
23	160121749024	BOBBALA SNUHITH REDDY .	Y	32
24	160121749025	C MAHENDAR .	Y	34
25	160121749026	CHINTHALA KOVITH .	Y	37
26	160121749027	DEVARA RISHIK .	Y	42
27	160121749028	DEVARAJU SAI BHARATH .	Y	34
28	160121749029	DHORAPELLY MAHESH .	Y	27
29	160121749030	DINESH SUBBA POTTENNAGARI .	Y	29
30	160121749031	EDULA NAGA SARAT CHANDRA REDDY .	Y	34
31	160121749032	GANGADI RISHIK TEJ .	Y	41
32	160121749033	GANUMPALLY SAI HARSHIL .	Y	32
33	160121749034	GARLAPATI RITESH .	Y	34
34	160121749035	GORENKA ABHISHEK .	Y	37
35	160121749036	GOSIKA SATHYASAI .	Y	43
36	160121749037	GUGULOTH ANAND .	Y	37
37	160121749038	GUNDU VIGNESH .	Y	34

Department of Computer Engineering & Technology

One Week Short Term Training Program (STTP) on IoT, IIoT and Applications

B.E. COMPUTER SCIENCE AND ENGINEERING (IOT & CS-BCT), 2022-2023, IV-SEM

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39	160121749040	KAMISHETTY RISHITH .	Y	38
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41	160121749042	KONIREDDY NAGA MOHITH REDDY .	Y	34
42	160121749043	KOSURI LEELA VENKATA SASIDHAR .	Y	38
43	160121749044	KUSUMA CHANAKYA .	Y	36
44	160121749045	M RISHIKESH .	Y	37
45	160121749047	MOHAMMED FARAZ UDDIN .	Y	29
46	160121749048	MONAJI SAI GANESH REDDY .	Y	37
47	160121749049	N V S N CHANDRA KIRAN .	Y	42
48	160121749050	NARAYANAM AKHIL KUMAR .	Y	34
49	160121749051	OWAIS RAFIQ SIDDIQUI .	Y	38
50	160121749052	PALLE SIDDESHWAR GOUD .	Y	43
51	160121749053	PASUPULETI DANUSH .	Y	39
52	160121749054	PATEL SAI JAYANTH .	Y	37
53	160121749055	PUPPALA VAMSHI VARDHAN .	Y	43
54	160121749056	PURELLA SAI TEJA .	Y	37
55	160121749057	SANTOSH SAKHAMURU .	Y	37
56	160121749058	SHIVVANNAGARI NIKHIL RAO .	Y	36
57	160121749059	SIMHADRI ADHIT .	Y	39
58	160121749060	TALAKANTI SAI PRANAV .	Y	42
59	160121749061	THOOM VENKAT REDDY .	Y	45
60	160121749062	VANEKAR MAHESH .	Y	38
61	160121749063	VANGAPALLY NAMISH .	Y	31
62	160121749064	VENKATA ADITYA GANGAPURAM .	Y	24
63	160121749065	VENKATA PHANITEJA UPPULURI .	Y	32
64	160121749301	VALLAMREDDY KOUSIK KUMAR REDDY .	Y	38
65	160121749302	ADITYA RAJ BHOSLE .	Y	41
66	160121749303	RAVULA HARIKA .	Y	25
67	160121749304	GUNDLA PREETHIKA .	Y	24
68	160121749305	DAKAMULLA VIJAY .	Y	31
69	160121749306	EDULA ADHITYA .	Y	34
70	160121749307	THIRANDAS PRIYANKA .	Y	29

Head of the Department
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HOD, Dept. of CET

One Week Short Term Training Program (STTP) on IoT, IIoT and Applications

STTP INTERNSHIP REPORT (DAY 1-5)

The STTP (Short Term Training Program) internship for CET (College of Engineering and Technology) 2nd year students commenced on 10th july and went on for a duration of 6 days, focusing on the concepts of Industrial Internet of Things (IIoT).

During the first day, Letfix coordinator J Jose sir delivered a comprehensive presentation on IIoT, explaining its significance and applications. The students were introduced to hardware components like nodemcu and Arduino Uno, and engaged in interesting and challenging experiments that combined programming knowledge with IIoT concepts.

The second day of the internship program began with an introduction to relays, a crucial component in the field of IIoT and had hands-on experience by implementing a circuit consisting of a 4-channel relay and an Infra-Red sensor interfacing with an Arduino Uno. The focus then shifted to NodeMCU, where students explored its capability to connect to local Wi-Fi/Hotspot and act as a hub for multiple devices. The afternoon session involved discussions, feedback, and theoretical introductions to components used in IIoT, such as miniature circuit breakers, various types of sensors (analog and digital), and industrial projects that showcased the scope and applications of IIoT.

The third day of the internship program primarily focused on practical applications. Participants explored into the theoretical aspects of circuit components used in industries, including MCBs, SMPS, sensors, and their connections. Following the theoretical session, the students were divided into groups and performed experiments involving lamps and sensors, utilizing relays. The forenoon session concluded with testing and inspection of the final products.

The fourth day .The forenoon session included an overview of emergency switches, key switches, and proximity sensors, followed by practical exercises. The participants were given a project where they had to integrate the provided components to control the fan's operation. In the afternoon, software-related work commenced, involving the use of Zen solutions software to create digital circuits that replicated the hardware circuits designed in the previous days.

The fifth day involved activities and projects centered around different types of software. Participants used Zen Support software to create various projects and execute assignments, such as lights switching and a lift simulation. The participants were also introduced to various project ideas and domains for their main internship project. In the afternoon session, they explored WPLSoft software which allowed them to create circuit flow diagrams without hardware. We were encouraged to try projects related to water tankers and underwater sensing.

Overall, the STTP internship provided valuable insights into IIoT concepts and practical applications, allowing participants to enhance their knowledge and skills in the field of IoT and IIoT.

HOD, Dept. of CET

Head of the Department
Dept. of Computer Engineering and Technology.
CBIT (A), Gandipet, Hyderabad-500 075.

About CBIT (A)

Chaitanya Bharathi Institute of Technology is one of the premier Engineering Colleges in the self-financing category in the state of Telangana established in the year 1979. The college offers 11 UG and 10 PG Programs. The Institute has become Autonomous under UGC w.e.f. 2013-14. UG Programs were accredited by the NBA in the years 1998, 2004, 2008, 2013, 2017, and 2022 and Five PG Programs have been accredited by the NBA in 2020 and 2024. The Institute is accredited by NAAC with a CGPA of 3.59 on the seven-point scale at 'A++' grade in 2023 for five years. CBIT ranked in the band of 150-200 in Engineering Category under National Institutional Ranking Framework (NIRF), Govt. of India, MHRD. The College Campus is spread across 50 acres.

About Department of Computer Engineering and Technology

Department of Computer Engineering and Technology (CET) offers a BE CSE (IoT, Cyber Security Including Blockchain) undergraduate engineering programme, since the academic year 2020-21 with an intake of 60 seats. This programme combines Computer Science, with the functional and operational aspects of IoT, Cyber Security and Blockchain Technology. The department has well equipped laboratories with necessary software's and committed, qualified well trained staff for teaching/learning process. The department is consistently exploiting the trending curriculum, teaching, learning, research and development practices, providing scope for the students to acquire knowledge and exploring better opportunities, for those aiming for admissions in prestigious institutions for their higher studies and placements in well known MNC companies.

CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY

An Autonomous Institute | Affiliated to Osmania University

Kokapet Village, Gandipet Mandal, Hyderabad, Telangana-500075, www.cbit.ac.in

COMMITTED TO RESEARCH, INNOVATION AND EDUCATION 45 years

Two Day Boot Camp on

Blockchain Platforms and Applications

18th & 19th March, 2024

Organised by

Department of Computer Engineering and Technology, CBIT (A)

Hands-on Boot Camp for Faculty and Students

About The Boot Camp

Blockchain technology is at the cusp of revolutionizing various sectors, including but not limited to finance, healthcare, and education. As such, gaining a comprehensive understanding of blockchain and its applications is increasingly becoming a necessity. This program promises an immersive learning experience in blockchain technology, covering many topics from theoretical foundations to practical applications.

Schedule

Day 1: 18/03/2024

- Introduction to Blockchain and Bitcoin
- Bitcoin Wallet Hands-on
- Introduction to Ethereum
- Meta-mask Hands-on
- Introduction to Remix
- Simple smart contract program
- Introduction to Blockchain explorer/testnet

Day 2: 19/03/2024

- Peer-to-peer money transfer through smart contract
- Introduction to ERC20 & ERC 721 tokens
- ERC20 Smart contract program
- ERC721 smart contract program
- Introduction to Hyperledger fabric.
- Deploying Chaincode in Hyperledger fabric

Resource Person

Dr. Dorsala Mallikarjun Reddy

Assistant Professor, Indian Institute of Information Technology, Sri City, Chittoor

Dr. Mallikarjun is a Blockchain researcher with strong fundamentals in distributed systems and over six years experience in public Blockchain networks. He is the winner of both the 2018 Blockchain Buildathon and the 2022 EthIndia Blockchain Hackathon.

Registration Fee
Free of cost

Location
CBIT Hyderabad

Timings
9:00 a.m. to 3:30 p.m.

Chief Patron

Sri. N. Subash, President, CBIT

Patron

Prof. C. V. Narasimhulu, Principal, CBIT

Convener

Prof. M. Subramaniam
Professor and Head, Dept. of CET, CBIT

Coordinators

Prof. N. Ramadevi
Professor, Dept. of CET, CBIT
Dr. G. Jaya Rao
Assistant Professor, Dept. of CET, CBIT

Advisory Committee

Prof. Umakanta Choudhary, Advisor I & I, CBIT
Prof. Sarma A.D, Advisor, R&E, CBIT
Dr. N. L. N. Reddy, Advisor, CDC, CBIT
Dr. P. Suresh, Director, AEC & COE, CBIT
Prof. P. Ravinder Reddy, Director & Head, R&E, CBIT
Prof. M. Sushanth Babu, Director, Academics, CBIT
Prof. N. T. Rao, Director, IQAC, CBIT
Prof. P. V. R. Ravindra Reddy, Director, Student Affairs, CBIT

Organizing Committee (Dept. of CET)

Dr. S. Kranthi Kumar, Associate Professor
Mrs. Kavita Agarwal, Assistant Professor
Mr. P. Narsimhulu, Assistant Professor
Mrs. G. Mamatha, Assistant Professor
Mrs. N. Sujatha Gupta, Assistant Professor

Supporting Staff (Dept. of CET)

Mr. S. Rajesh, Computer Operator
Mr. Syed Althaf, Computer Operator
Mrs. Md. Shabana, Administrative Exec.

DEPARTMENT OF COMPUTER ENGINEERING & TECHNOLOGY

Two Day-Boot Camp on "Blockchain Platforms and Applications"

Date: 18-03-2024

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HoD, Dept. of CET

DEPARTMENT OF COMPUTER ENGINEERING & TECHNOLOGY

Two Day-Boot Camp on "Blockchain Platforms and Applications"

Date: 19-03-2024

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15.	015	Shrina Tyagia	styagia@gmail.com		
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20.	160121749020	A Khanish Ram	annapuramkhanishram@gmail.com		
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22.	160121749022	B. Shyam Prakash	Shyamprakash4459@gmail.com		
23.	160121749023	B. Karthikender Reddy	karthikbathula9@gmail		
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31.	160121749031	Sarat Reddy	saratreddy010@gmail.com		
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38.	160121749038	G. Vignesh	vignesgunder@gmail.com	[illegible]	[illegible]
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40.	160121749040	K. Rishith	kaamerhatty.rishith@gmail.com	[illegible]	[illegible]
41.	160121749041	K. Pranath	pranathkdn17092003@gmail.com	K. Pranath	K. Pranath
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43.					
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45.					
46.					
47.	47	Mohammed Faraz uddin	mohammed farazuddin01@gmail.com	[illegible]	[illegible]
48.	160121749048	M. Sai Ganesh (Reddy)	saimonaisgani@gmail.com	[illegible]	[illegible]
49.	160121749049	NYSHCHANDRAKRAN	nyshchandrakran77@gmail.com	[illegible]	[illegible]
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56.					
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61.					
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66.	160121749301	Kasik Reddy	kasikreddy301@gmail.com	[illegible]	[illegible]
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70.	160121749305	D. Vijay	tech2vijay@gmail.com	D. Vijay	D. Vijay
71.	160121749306	E. Adhitya	adhityaadhi04@gmail.com	[illegible]	[illegible]
72.	160121749307	T. Priyanka	Thirandasprayanka0901@gmail.com	Priya	Priya

HoD, Dept. of CET

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Two Day Boot Camp on

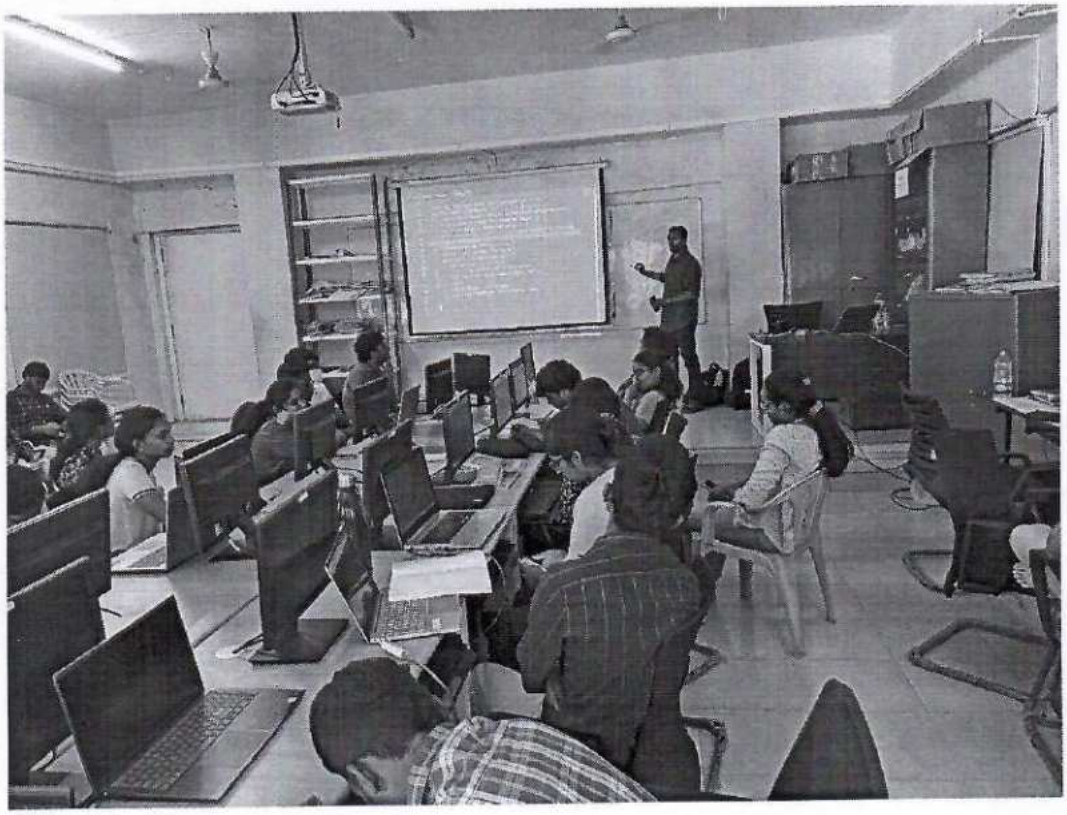
Blockchain Platforms and Applications

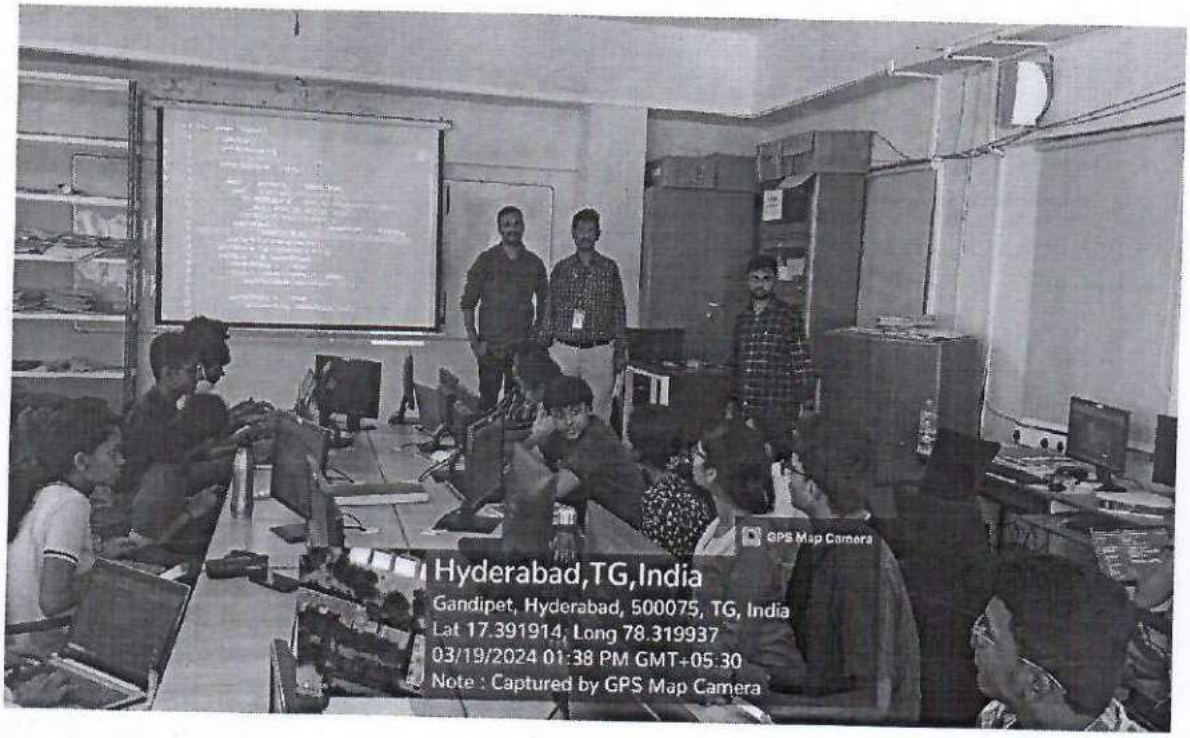
18th & 19th March, 2024

Organised by

Department of Computer Engineering and Technology, CBIT (A)

Hands-on Boot Camp for Faculty and Students





HoD, Dept. of CET

DEPARTMENT OF COMPUTER ENGINEERING & TECHNOLOGY

Two Day-Boot Camp on "Blockchain Platforms and Applications" Report

Department of CET organized a Two Day-Boot Camp on "Blockchain Platforms and Applications" during March 18th and March 19th, 2024 for VI Semester Students.

During the first day, Dr. Dorsala Mallikarjun Reddy, Assistant Professor, IIIT SriCity, delivered a comprehensive presentation on Blockchain Technology, Understanding the Basics of Blockchain, Creating a Simple Blockchain from Scratch, Mechanisms & Networks behind Blockchain Technology, Dive into Smart Contracts and Cryptocurrency, Building Smart Contracts: Basics to Advanced, Introduction to Cryptocurrency and Building a Simple Version, Ethereum Coding for Blockchain Applications.

The second day of the boot camp bagan with an introduction to Blockchain Platforms, Practical Blockchain Applications Development, Design, develop and deploy a smart contract for a ERC20 tokens Design, develop and deploy a Blockchain App for ERC721/NFT, Create unique blockchain-centric solutions to real work problems and business applications. Future of Blockchain Technology: Trends and Opportunities.

Overlall, the bootcamp provided the valuable insights into blockchain concepts and applications, allowing participants to enhance their knowledge and skills in the field of blockchain technology.

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Kokapet Village, Gandipet Mandal, Hyderabad, Telangana-500075, www.cbit.ac.in
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Dt: 27-12-2023

C I R C U L A R

The Department of MCA is organizing an Guest Lecture on 29-12-2023 from 2.00 PM to 4.00 PM through online mode. The details of the talk are as follows:

Title of the talk	:	"Java Stream API"
Speaker Name	:	Mr. CNVBR Sri Gowrinath
Date & Time	:	29-12-2023, 2.00 PM – 4.00 PM
Venue	:	Lab I & Lab II of MCA

Mr. CNVBR Sri Gowrinath is currently working as Specialist Learning Infosys, Hyderabad, Telangana, India

All the students of MCA of II semesters are required to attend the talk. The attendance will be taken by the concerned class teachers. Interested students and faculty of other departments are welcome to attend.

The faculty coordinators for the Alumni talk are Dr. B. Indira and Mr. Ramesh Ponnala.

Coordinator

A Guest Lecture on "Java Stream API" on 29/12/2023.
Speaker: Mr. CNVBR Gowrinath, Specialist Learning, ETA, Infosys, Hyderabad
Faculty Coordinators: 1) Ramesh Ponnala, 2) Dr. B. Indira.
The following faculty & Students attended the Guest lecture.

S.No	Staff Name	Signature
1	Dr. B. Indira	[signature]
2.	Dr. GNR Prasad	
3.	Dr. M. Ramchander	
4.	Mr. P. Krishna Prasad	[signature]
5.	Mr. BSSP Kumar	
6.	Mr. Ramesh Ponnala	[signature]
7	Mr M Kalidas	[signature]
8	Mrs. T. S. Praveena	[signature]
9.	Mr. V. Kondal Reddy	[signature]

The following Students attended the Guest Lecture

S.No	Roll No	Name of the Student		Signature
1				
2	160123862002	A. Keerthi		Keerthi A.
3				
4	160123862004	B. Sampath		Sampath
5	160123862005	B. Keerthika		Keerthika
6	160123862006	B. Nanda Kishore		[signature]
7	160123862007	Ch. Tirumala Rao		Tirumala
8				
9	160123862009	Ch. Harshitha	1:00pm	Harshitha
10				
11	160123862011	D. SAIKRISHNA		[signature]
12				
13	160123862013	D. Lakshmi Narayana		D. Lakshmi Narayana
14	160123862014	E. Sindhuja		[signature]
15	160123862015	Fatha Nikhat		Fatha

18	160123862018	G Harini	1:00pm	Harini
19				
20				
21	160123862021	J.Lokesh	1:00	J.lokesh
22				
23				
24	160123862024	K.Keerthana	1:00pm	Keerthana
25				
26				
27				
28				
29	160123862029	K.Akhila	1:00	Akhila
30	160123862030	Md.RafeeqRaza	1:00	MRafeeq
31	160123862031	M.Vijay	1:00	
32	~~160123862~~2032	M.Nagesh	1:00	Nagesh
33				
34				
35	160123862035	M.Bhanu	1:00	
36				
37	160923862037	M. Shivasaigoud	1:00	Shivasai
38	160923862038	M.Vinay kumar	1:00	M.Vinay kumar
39	160123862039	N.Vidya	1:00	N.Vidya
40	160123862040	N.Ajay Reddy	1:00	Ajay
41				
42	160123862042	P.Manisha	1:00	P.Manisha
43	160123862043	P.Vikram Adithya	1:00	
44	160123862044	P.Nehal Reddy	1:00	
45				
46	160123862046	S.Anurag Reddy	1:00	
47				
48	160123862048	S.Fazal	1:00	

~~160123862050~~ ~~[S. Devi Priya]~~	S. Devi Priya	1:00	S. Devi Priya
160123862051	S. Basi Gonda	1:00	Basi
160123862052	K. Shreya Bhavani	1:00	K Shreya
160123862053	S. Vanaana	1:00pm	Vanaana
160123862059	U. Mamatha	1:00pm	Mamatha
160123862060	V. Mamatha	1:00	Mamatha
160123862062	V. Jamuna	1:00	Jamuna
160123862064	T. Shivacharan	1:00	Shivacharan

18

A REPORT ON GUEST LECTURE ON

"JAVA STREAM API"

CONDUCTED BY DEPT. OF MCA

Date of the Guest Lecture: 29-03-2023

Venue: MCA LABS – I & II, CBIT.

The Total number of participants were: 35 students

About the Speaker:
Mr. CNVBR Sri Gowrinath is currently working as Specialist Learning, ETA Infosys, Hyderabad, Telangana, India

The faculty coordinators for the Alumni talk are Dr. B. Indira and Mr. Ramesh Ponnala.

About the Guest Lecture:

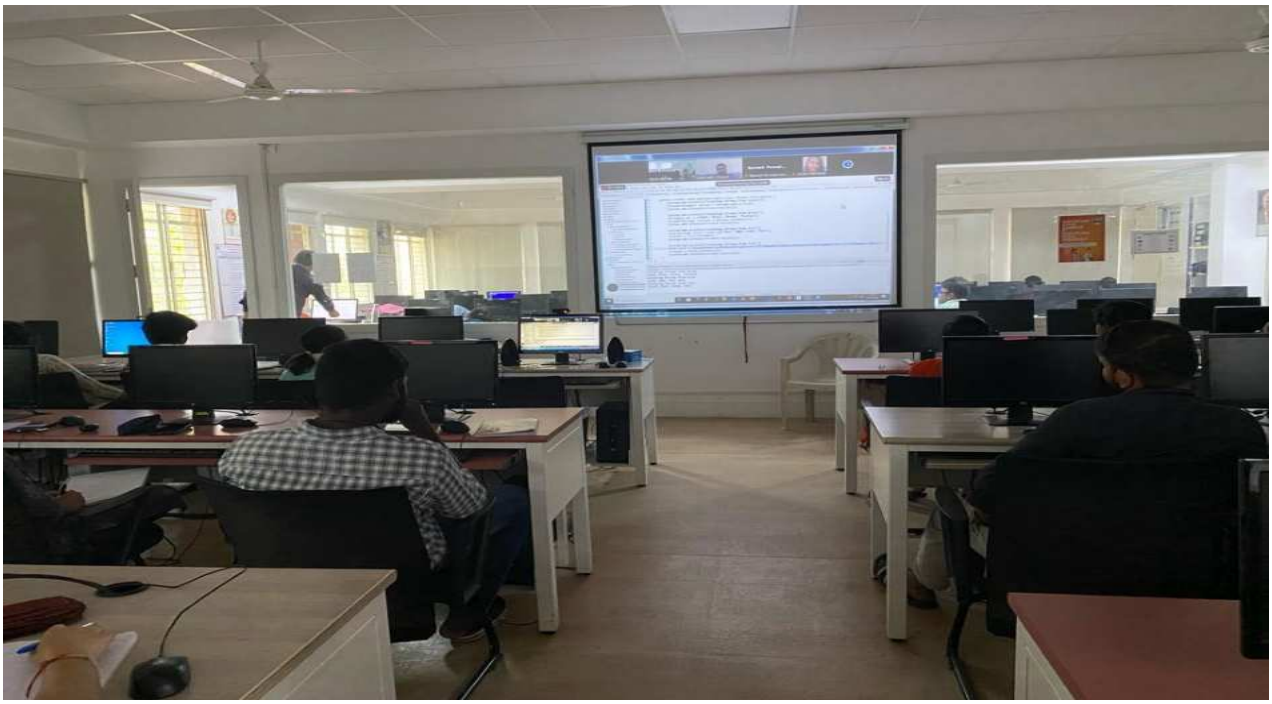
A guest lecture on "Java API Streams" was organized for the MCA students to provide insights into modern programming paradigms and to bridge the gap between academic learning and industry practices.

Objectives of the Lecture:

1. To introduce students to Java API Streams and their significance in functional programming.
2. To understand stream processing and how it simplifies data manipulation in Java.
3. To explore real-world applications and best practices in utilizing Java Streams for efficient coding.

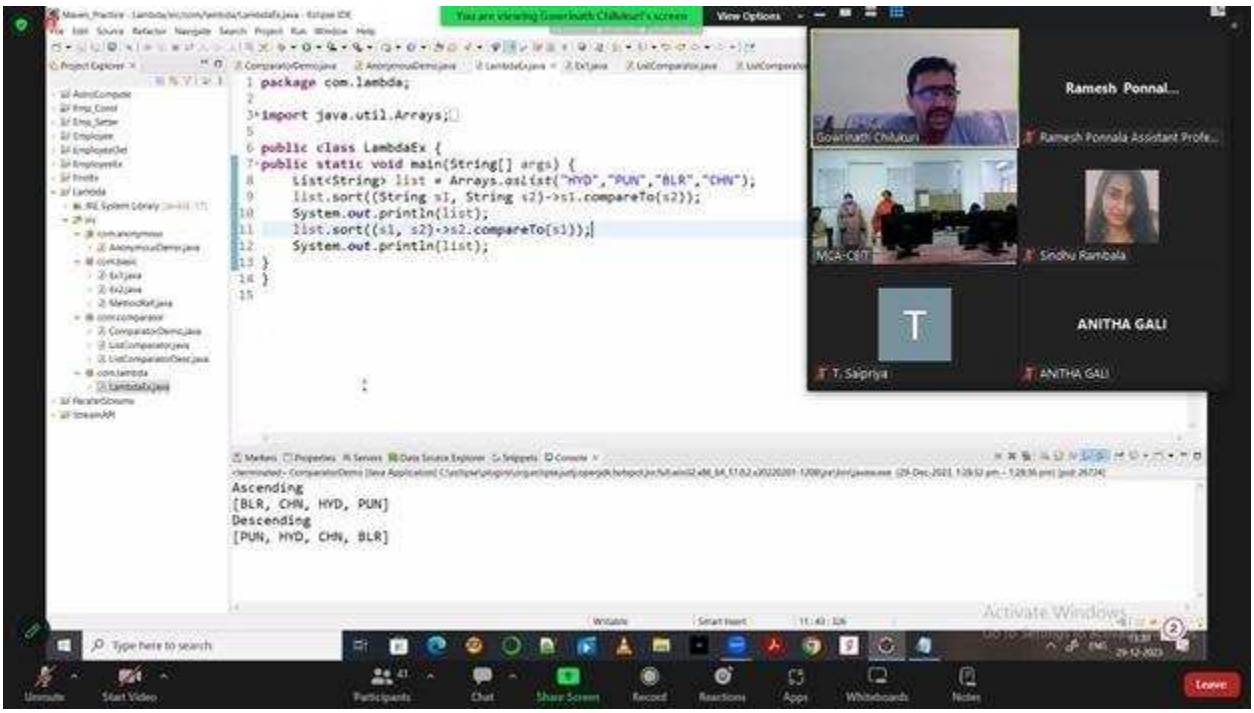
The Outcome of the Guest lecture:

The guest lecture successfully enriched the students' knowledge about Java Streams and their practical applications. It also motivated them to explore advanced features of Java programming. Such sessions are instrumental in preparing students for real-world challenges in software development.

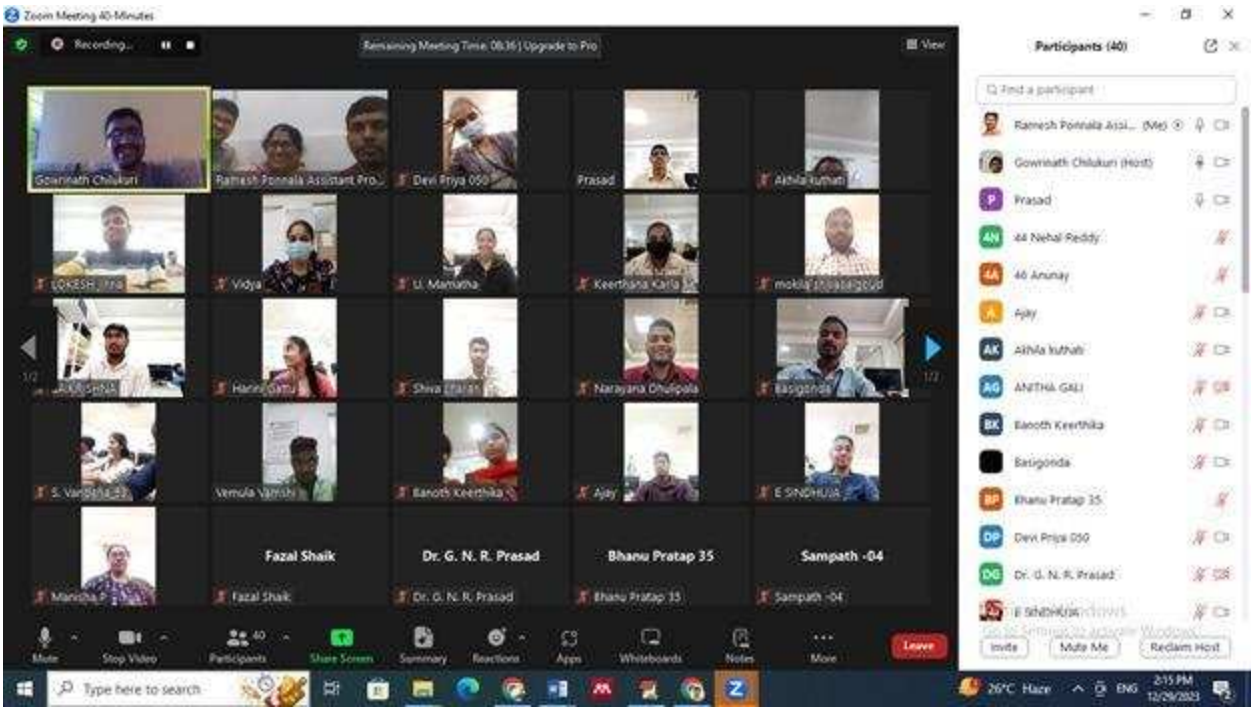


MCA students attending the Guest lecture by Mr. CNVBR Sri Gowrinath on Java Stream API

MCA students attending the Guest lecture by Mr. CNVBR Sri Gowrinath on Java Stream API in hybrid mode

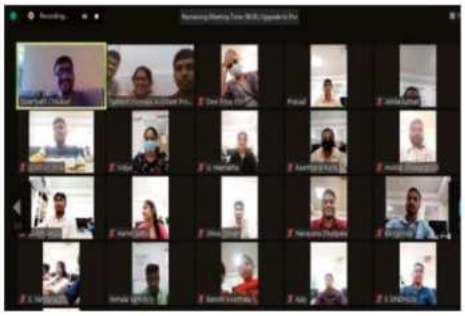


MCA students attending the Guest lecture by Mr. CNVBR Sri Gowrinath on Java Stream API in hybrid mode



MCA students attending the Guest lecture by Mr. CNVBR Sri Gowrinath on Java Stream API in hybrid mode

CBIT MCA Department Hosts Guest Lecture: Exploring Java Stream API



DECCAN NEWS SERVICE
HYDERABAD

The MCA department at CBIT College organized a guest lecture on Java Stream API, featuring Mr. Gaurinath, a Specialist Learning professional at Infosys-Hyderabad. The lecture, held online, delved into the distinctive features of Java Stream. Emphasizing that streams do not alter the original data structure, Mr. Gaurinath explained their input sources and highlighted terminal operations that conclude streams. He also noted the abundant job opportunities in this sector. The event was orchestrated by Mr. Ramesh Ponnala and Dr. B. Indira, with the participation of various faculty members and students.

Paper clipping of the guest lecture organized by MCA dept. on 29-12-2023

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DEPARTMENT OF MCA

Presents National level Webinar on

Topic	:	Navigating the Intelligent Era
Guest Speaker	:	Mr. Vineet Goyal
		Automation and Integration Engineer at Ericsson, ML Developer at Rave Energy.
Venue	:	**https://cbithyd.webex.com/cbithyd/j.php?MTID=mb33baf9457f7d6bfea172ec7a61c0e75**
Date	:	**07-07-2023**
Time	:	**10 AM – 12PM**

Abstract

The webinar focuses on insights into Artificial Intelligence, Natural Language Processing, Data Science, Big data and Cloud Computing. Also gives an overview of Machine Learning Algorithms and various models.

About the Speaker:

Currently developing Autonomous Driving with Uncertainty Detection. Developed code to run different components of the docker file to run with different configurations. Developed code to automate docker image pull and save and to scale up and scale down different components of Kubernetes. Enhanced Helm charts to handle high no. of productions. Worked on automating the delivery process of documents and codes for client

Faculty Coordinators:

Dr.B.Indira, Associate Professor, Dept. of MCA, CBIT(A)

Mr.Ramesh Ponnala, Asst. Professor, Dept.of MCA, CBIT(A).

Student Coordinators

Chandana, MCA II year, Bhavesh, MCA I year

HEAD
Dept. of MCA
Chaitanya Bharathi Institute of Technology
Gandipet, Hyderabad-500 075.

DEPARTMENT OF MCA

WEBINAR ON "NAVIGATING THE INTELLIGENT ERA" ON 07-07-2023

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1.	160121862039	Chandana-M	
2.	160121862021	G. Yogananda	
3.	160121862020	G. [illegible]	
4.	160121862043	N. Srikanth	
5.	160121862011	C. Shiva Kumar	
6.	160121862015	D. Sai Rohini	
7.	160121862002	A. Shirisha	
8.	160121862023	G. Kusuma	
9.	160121862002	B. Shiva priya	
10.	160121862055	T. Abhinav	
11.	160121862064	Neeharika	
12.	160121862052	Meghana	
13.	160121862016	Rithwika	
14.	160121862006	B. Jayang	
15.	160121862026	Jasvoinder Kaur	
16.	160191862069	V. Rohan	
17.	160121862043	N. Srikanth	
18.	160121862059	V. Dheeraj	
19.	160121862007	B. Laxman	
20.	160191862056	T. Sai kumar	
21.	160121862060	Tejaswee	
22.	160121862031	Sagar	
23.	160121662005	Bhavika	
24.	160121862034	K. Kalyan Kumar	
25.	160121862001	Ranjit kumar	
26.	160121862027	Smith	
27.	160121862057	Hari Krishna	
28.	160121862028	Ranjith	
29.	160121862044	Kitesh	
30.	160121862061	Vardhan	
31.	160121862012	Ch. Meghana	
32.	160121862048	R. Alekya	
33.	160121862030	K. Amulya	
34.	160121862018	E. Snehapriya	
35.	160121862054	T. Praveen Reddy	
36.	160121862032	Laxmi Aparna	
37.	160121862058	Prashanth	
38.	160121862053	Ramyapriya	

HEAD
Department of MCA
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Gandipet, Hyderabad-500 075, Tel

39.	160121862038	M. Vinitha	M. Chitra
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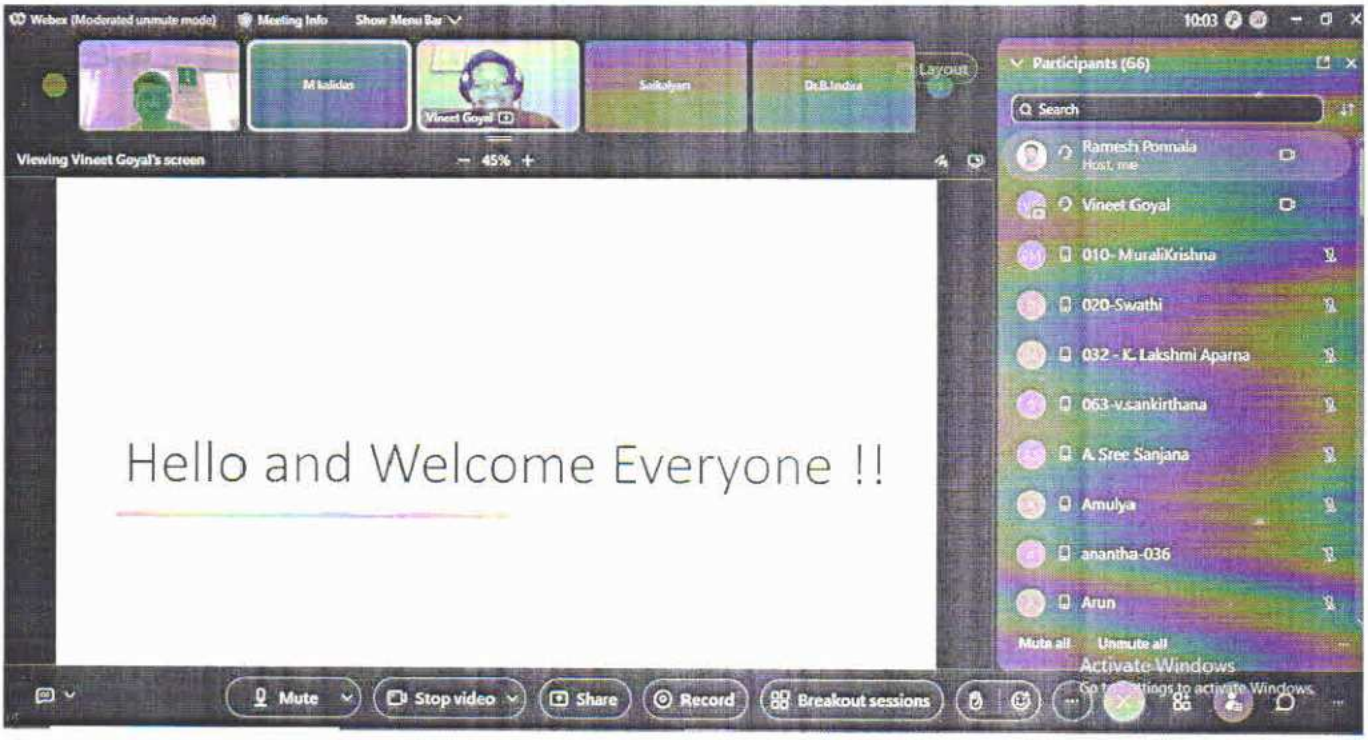
Gandipet, Hyderabad-500 075



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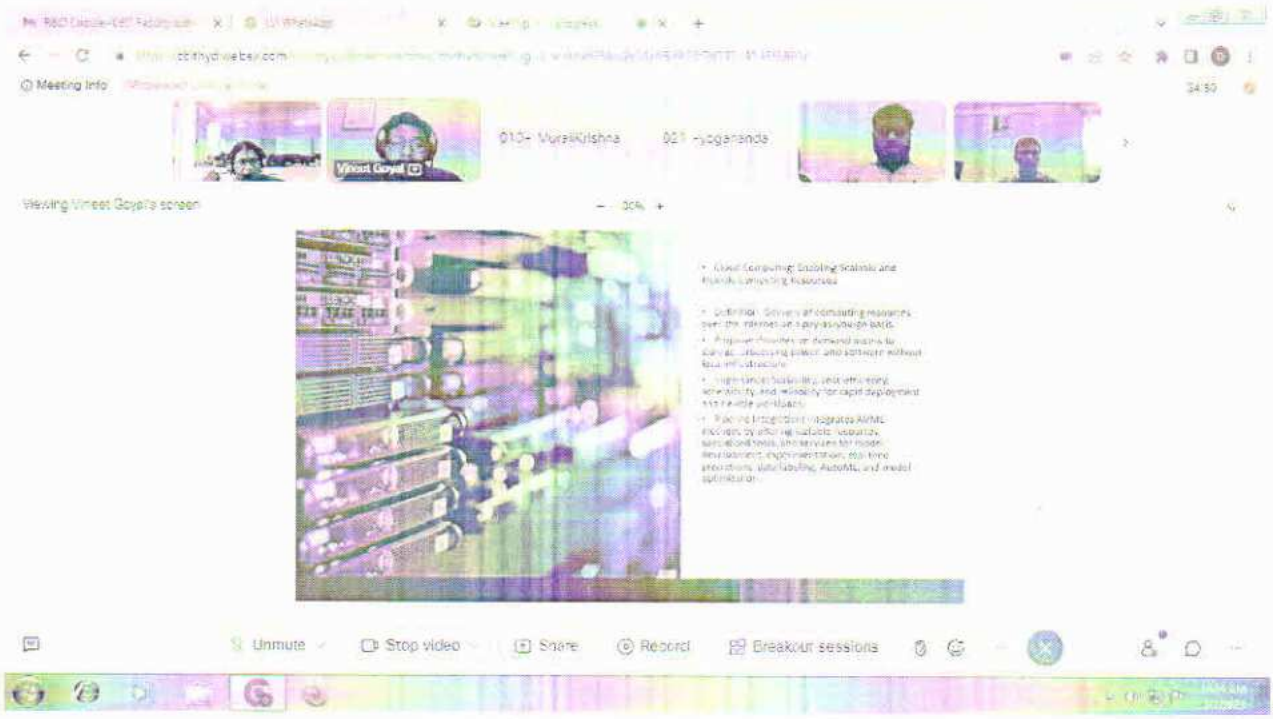

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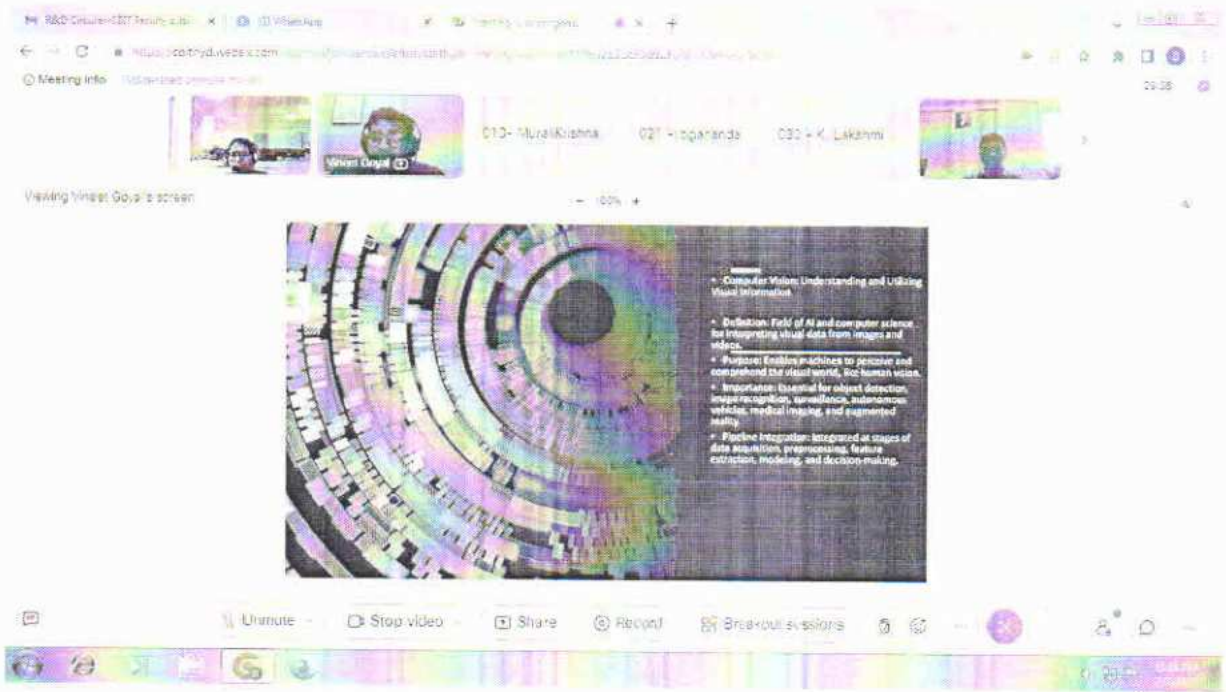

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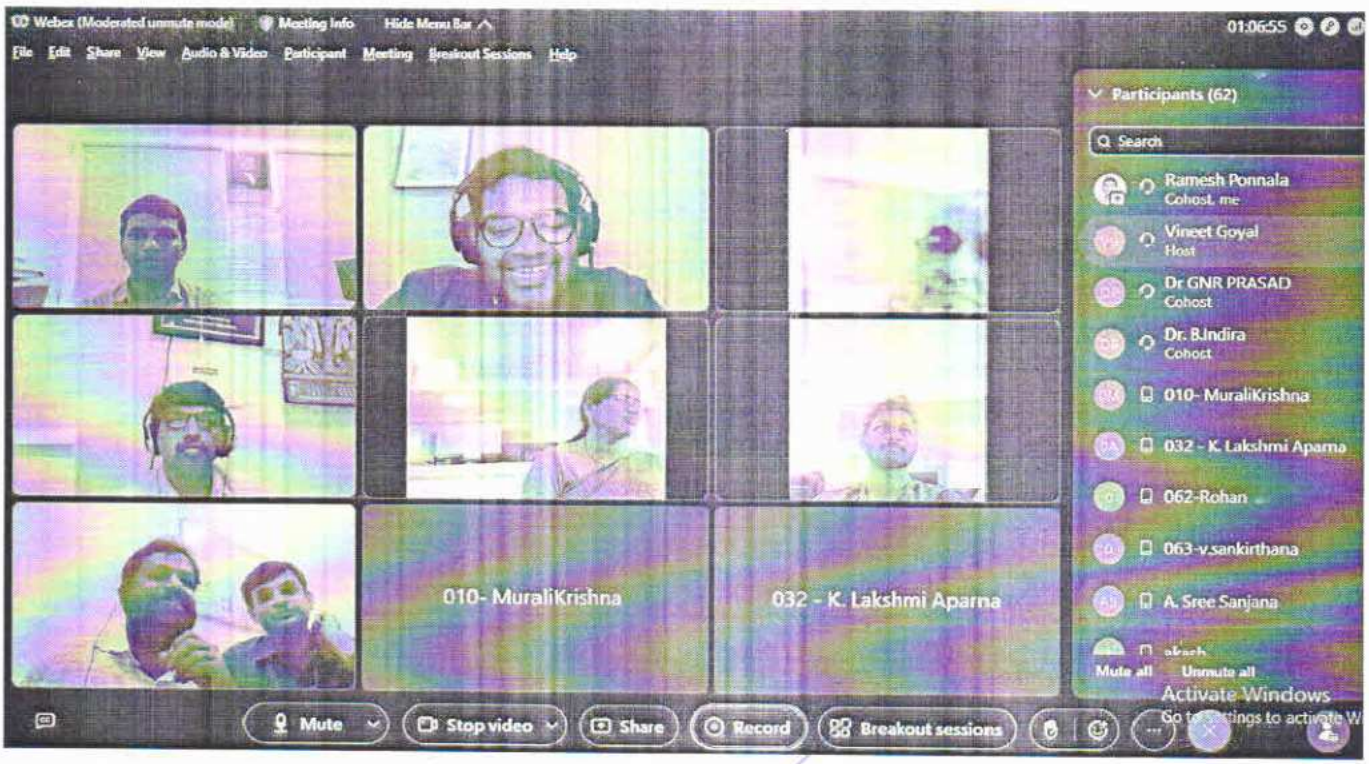

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DEPARTMENT OF MCA

Presents Guest Lecture

Topic	:	A Guest lecture on IoT Applications
Guest Speaker	:	Mr. Sandeep Kalari
		Student at Old Dominion University, Virginia, USA
Venue	**:**	CBIT – MCA LAB (ONLINE)
Date	**:**	06-07-2023
Time	**:**	9.30 AM – 10.30 AM

Abstract

The webinar focuses on insights on IoT and real time applications. Also gives an overview of Machine Learning Algorithms and various models.

About the Speaker:

Mr. Sandeep Kalari is an alumni of MCA department. He is presently pursuing his masters Old Dominion University, Virginia, USA.

Faculty Coordinators:

M.Kalidas, Assistant Professor, Dept. of MCA, CBIT(A)

Mr. P.Krishna Prasad, Asst. Professor, Dept.of MCA, CBIT(A).

Student Coordinators

Chandana, MCA II year

Bhavesh, MCA I year

HEAD
Department of MCA
Chaitanya Bharathi Institute of Technology
Gandipet, Hyderabad-500 075

GUEST LECTURE ON IoT AND REAL-TIME APPLICATIONS

By Mr. Sandeep Kalari on 06-07-2024

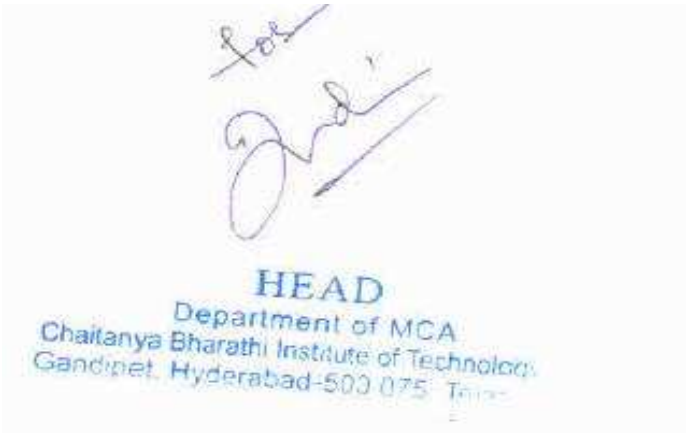
Alumni of MCA

The following students attended the Guest lecture

Faculty Coordinators: M. Kalidas and P. Krishna Prasad

Sno	HTNo	Name of the Student
1	160121862001	A RANJITH KUMAR
2	160121862002	A SHIRISHA
3	160121862003	AKASH SWAMY
4	160121862005	Bhavika Bandi
5	160121862006	BATHALAPALLI SARANG
6	160121862007	BEETKURI LAXMAN
7	160121862008	BEGARI ARUN PRASAD
8	160121862009	BUDDOLU SHIVAPRIYA
9	160121862010	CHANDRA MURALIKRISHNA
10	160121862011	CHANUGOMULA SHIVA KUMAR
11	160121862012	CHERIPELLY MEGHANA
12	160121862013	DASARI HARSHINI REDDY
13	160121862014	DASETTY VENKATA SUMANTH
14	160121862015	DHARANIKOTA SAI ROHINI
15	160121862017	DUSA SAI KIRAN
16	160121862018	ENAGANDULA SNEHAPRIYA
17	160121862019	G MAHESH
18	160121862020	GARA SWATHI
19	160121862022	GOLE AKANKSHA
20	160121862023	GOnGULUR KUSUMA
21	160121862025	IRSHAD AHMAD WANI
22	160121862027	KASIDI SUMITH REDDY
23	160121862028	KISHAN RANJIT
24	160121862029	KOMIREDDY MANIKANTA
25	160121862030	KONDA AMULYA
26	160121862031	KONDAWAR SAI SAGAR
27	160121862032	KOTA LAKSHMI APARNA
28	160121862033	KUMMARI PRAVALIKA
29	160121862035	KUSMA GANESH SHANKAR
30	160121862036	L ANANTHA LAKSHMI
31	160121862037	M.SRAVANI
32	160121862039	MADYALA CHANDANA
33	160121862040	Maharaj DattaCharan
34	160121862041	MARUDI AMARESHWARA REDDY
35	160121862042	MOHAMMED IMRAN SHAREEF
36	160121862043	NOONE SRIKANTH
37	160121862044	P RITHESH KUMAR
38	160121862045	PALAMURU TARUN GOUD
39	160121862046	SAI KOUSHIK
40	160121862048	RAYALA ALEKHYA
41	160121862049	SAKLAIN MUSTAQUE
42	160121862050	MASIPEDDI SOUMYA

43	160121862052	SUTHARI MEGHANA
44	160121862053	THATHAPUDI RAMYA PRIYA
45	160121862054	TADI NAGA PRAVEEN REDDY
46	160121862056	THALISHETTI SAI KUMAR
47	160121862057	UPPULETI HARI KRISHNA
48	160121862058	VADITYAVATH PRASHANTH
49	160121862059	VADLA DHEERAJ KUMAR
50	160121862060	VAVALDAS TEJASWEE
51	160121862061	Veldhandi srivardhan
52	160121862062	VENNA ROHAN
53	160121862064	YAKKALA NEEHARIKA
54	160121862065	Zeba Farheen



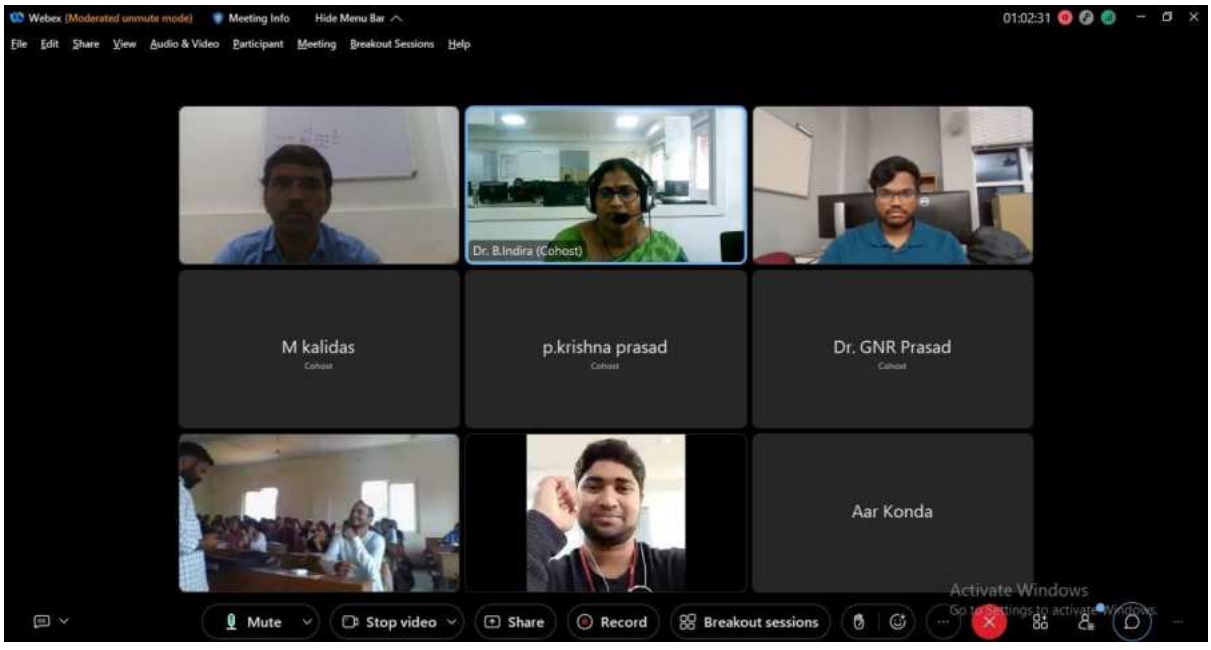
REPORT ON THE GUEST LECTURE ON IoT AND REAL-TIME APPLICATIONS

By Mr. Sandeep Kalari on 06-07-2024

Alumni of MCA

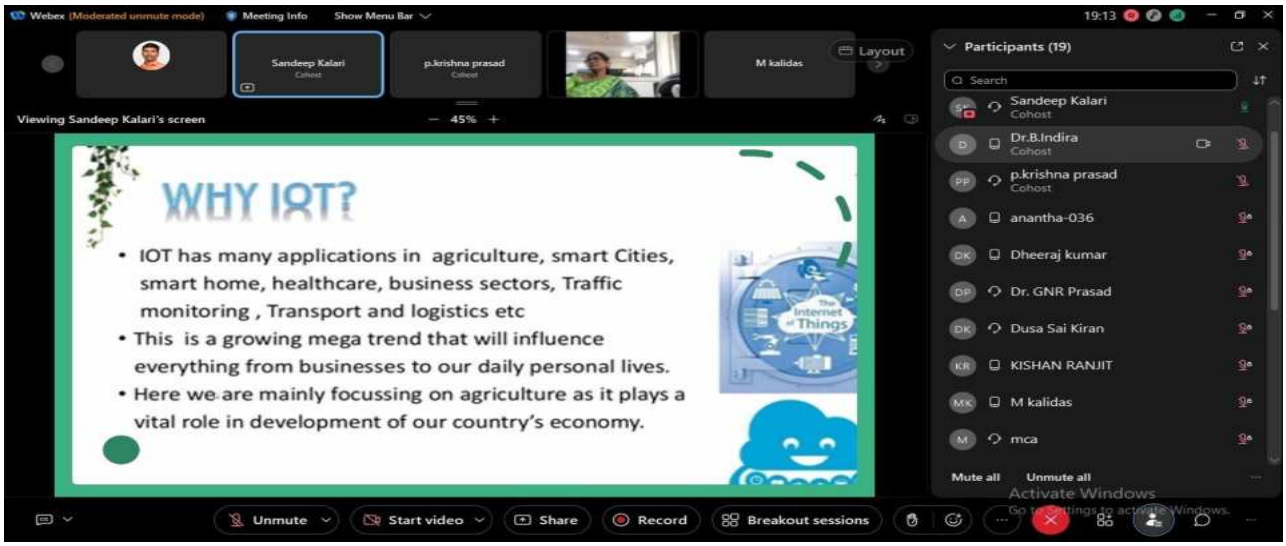
The guest lecture on the "Applications of the Internet of Things (IoT)" provided an insightful overview of how IoT is revolutionizing various sectors. The session covered key IoT concepts, architecture, and practical applications, highlighting its impact on industries like healthcare, agriculture, smart cities, and manufacturing.

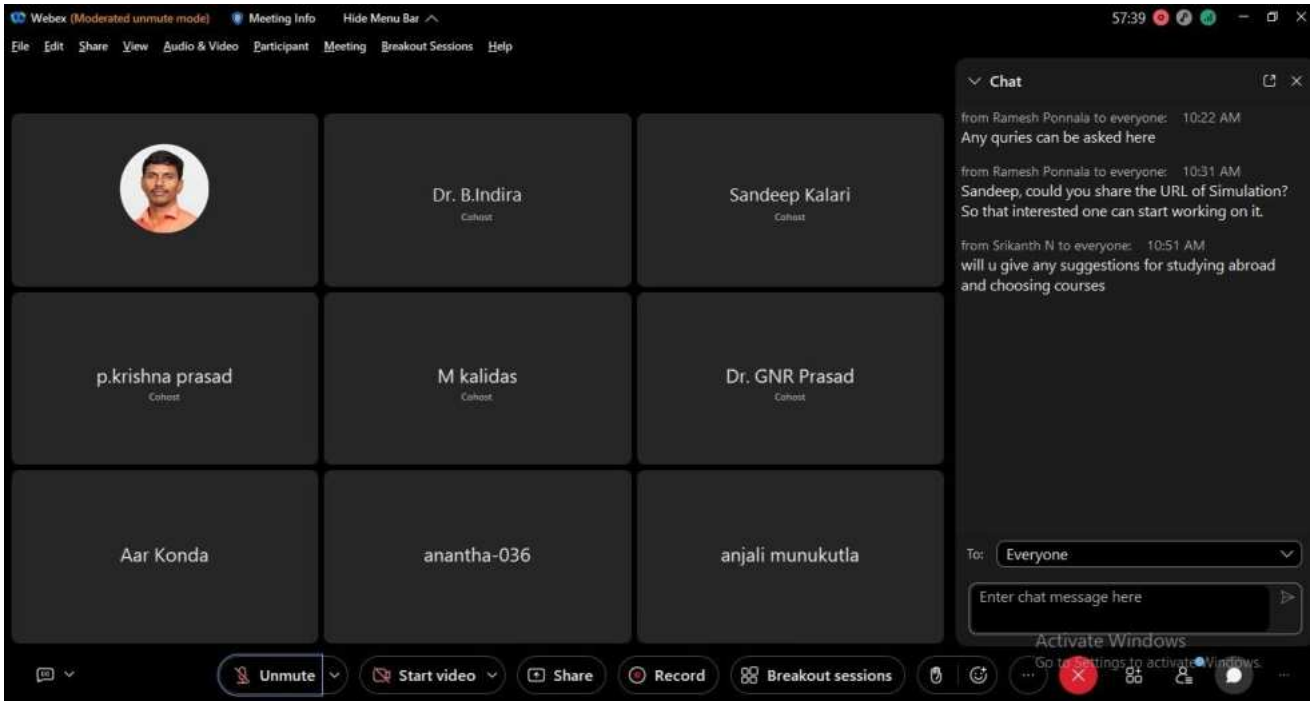
The guest lecture provided a comprehensive understanding of IoT applications, showcasing the transformative potential of this technology across various domains. Attendees gained valuable insights into the real-world implementation of IoT systems, along with the challenges and future trends in the field. The session ended with a Q&A segment, where students and faculty engaged in an interactive discussion, further deepening their knowledge



PARTICIPANTS ONLINE IN THE A GUEST LECTURE ON IOT AND REAL-TIME APPLICATIONS

HEAD
Department of MCA
Chaitanya Bharathi Institute of Technology
Gandipet, Hyderabad-500 075





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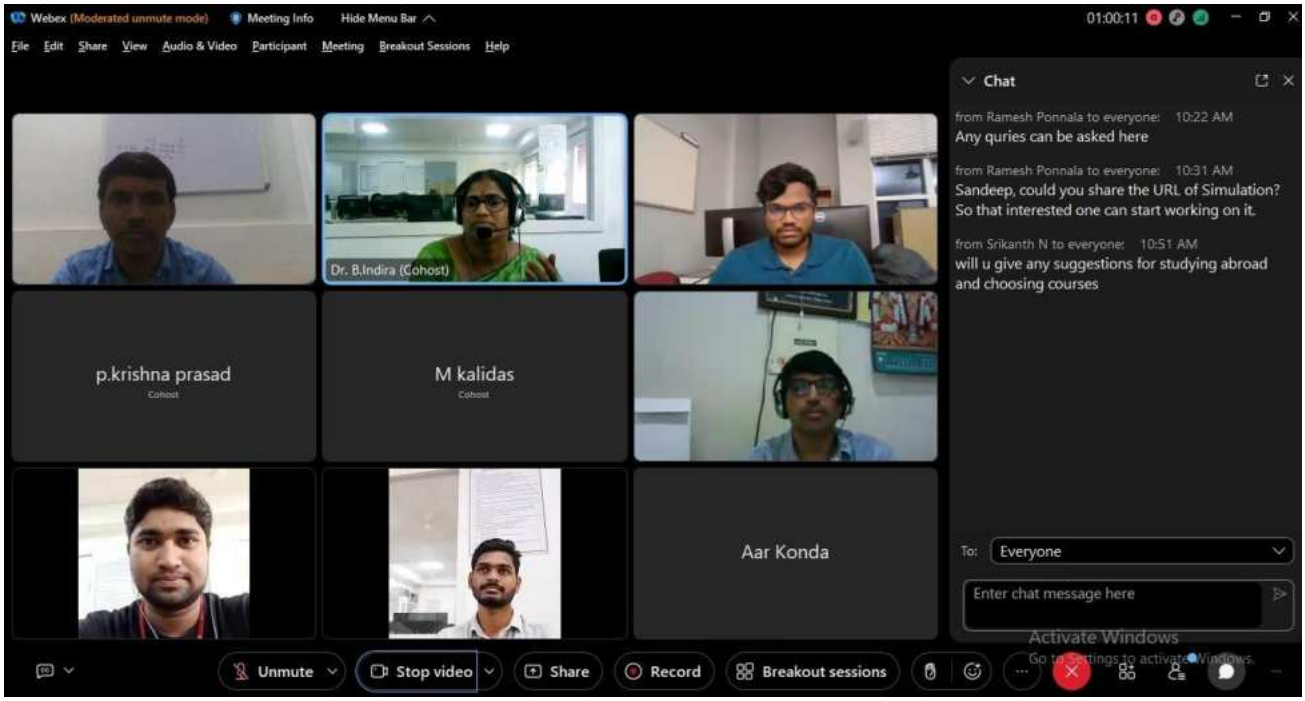

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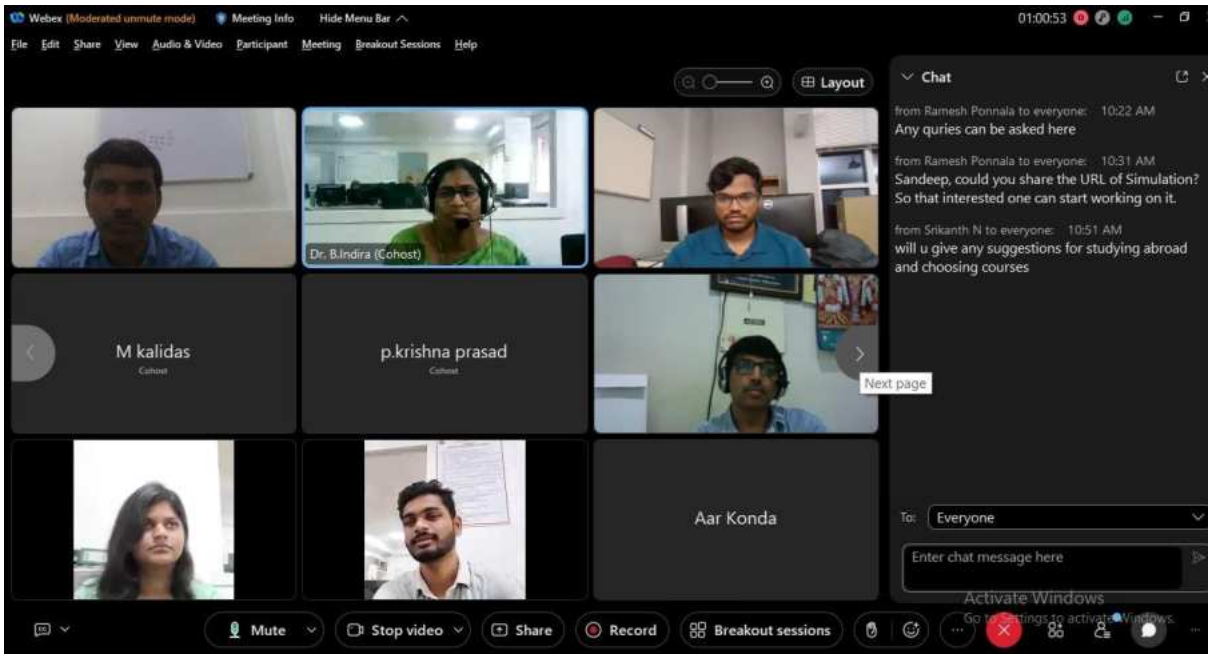

PARTICIPANTS ONLINE IN THE A GUEST LECTURE ON IOT AND REAL-TIME APPLICATIONS

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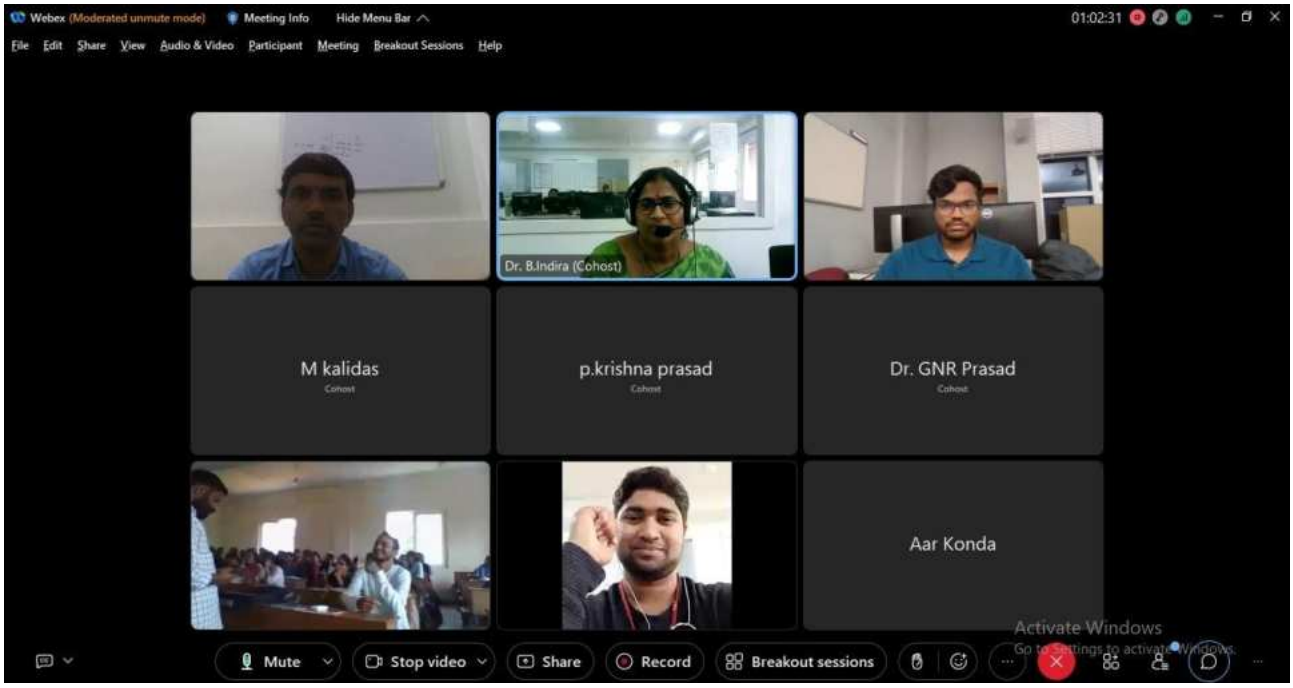

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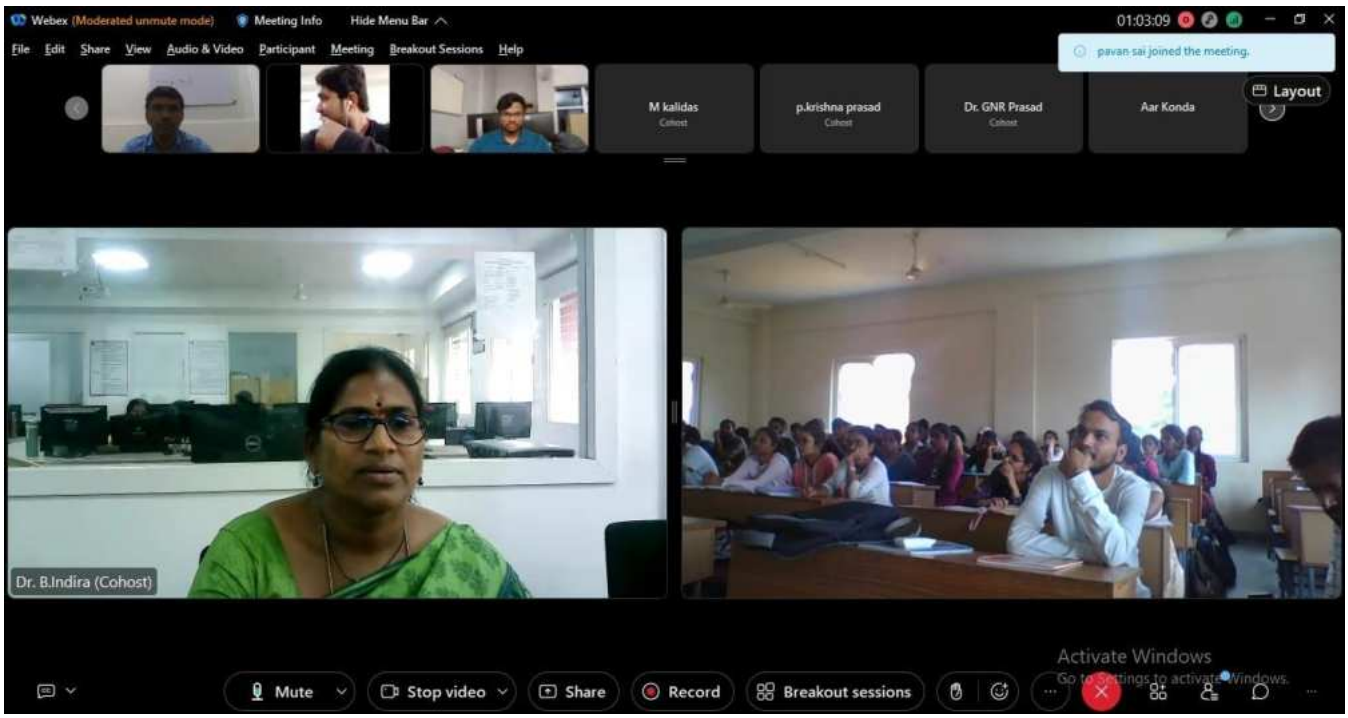

HEAD
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Gandipet, Hyderabad-500 075

CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY (Autonomous)

GANDIPET, HYDERABAD- 500075

DEPARTMENT OF CIVIL ENGINEERING

Report

on

Three-week Practice Oriented Student Internship Program (SIP) on "Software Applications for Sustainable Civil Engineering (SASCE 2023)"

About the Internship

This internship is an excellent platform for students and researchers to gain knowledge on applications of different computational tools in Civil Engineering. Theoretical knowledge is not solely sufficient to work in real-field problems. Therefore, this internship mainly focuses on hands-on training on Basic statistical methods and its applicability in Civil Engineering, research scope for optimization applications in Environmental Engineering, application of statistics in Water Resource Engineering, Constitutive modelling in Geotechnical Engineering, Applications of statistical techniques in geotechnical engineering which require an intense knowledge of relevant software and their working. The internship was handled by experts from resource persons from universities of national repute and Industries like NITs, VIT, BITS Pilani, Hyderabad campus and HMWSSB. The internship was conducted from 14th November 2023 to 5th December 2023 for total 90 contact hours with its numerous sessions on training, hands-on and project work. Assignments were given to all interns as homework and the same was evaluated. Assessment was done on a given project related to the application of civil engineering, thereby enhancing the ability of the participants in carrying out its application in the future research.

The internship was conducted in association with AICTE IDEA Lab, CBIT and Indian Concrete Institute, Hyderabad Centre. The aim of AICTE IDEA Lab in CBIT is to provide all facilities for conversion of an idea into a prototype. With these facilities in the campus, more students and faculty are being encouraged to take up creative work. In this process, students and faculty are getting trained on creative thinking, problem solving, collaboration etc.

To
Head, HM
14/12/23

Received
18/12/23.

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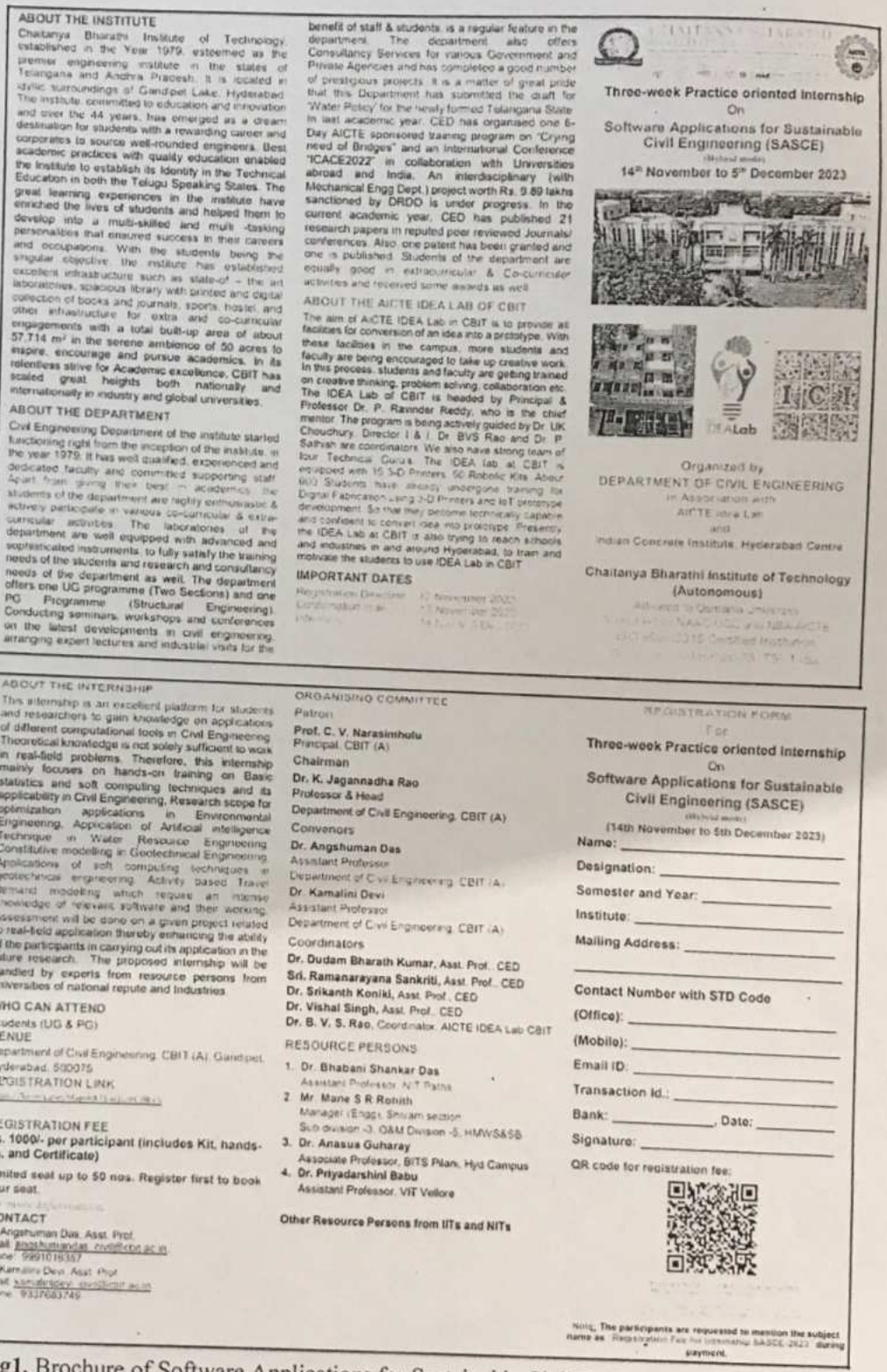

ABOUT THE INSTITUTE

Chaitanya Bharathi Institute of Technology, established in the Year 1979, esteemed as the premier engineering institute in the states of Telangana and Andhra Pradesh. It is located in idyllic surroundings of Gandipet Lake, Hyderabad. The institute, committed to education and innovation and over the 44 years, has emerged as a dream destination for students with a rewarding career and corporates to source well-rounded engineers. Best academic practices with quality education enabled the Institute to establish its identity in the Technical Education in both the Telugu Speaking States. The great learning experiences in the institute have enriched the lives of students and helped them to develop into a multi-skilled and multi -tasking personalities that ensured success in their careers and occupations. With the students being the singular objective, the institute has established excellent infrastructure such as state-of – the art laboratories, spacious library with printed and digital collection of books and journals, sports, hostel and other infrastructure for extra and co-curricular engagements with a total built-up area of about 57,714 m^2 in the serene ambience of 50 acres to inspire, encourage and pursue academics. In its relentless strive for Academic excellence, CBIT has scaled great heights both nationally and internationally in industry and global universities.

ABOUT THE DEPARTMENT

Civil Engineering Department of the institute started functioning right from the inception of the institute, in the year 1979. It has well qualified, experienced and dedicated faculty and committed supporting staff. Apart from giving their best in academics, the students of the department are highly enthusiastic & actively participate in various co-curricular & extra-curricular activities. The laboratories of the department are well equipped with advanced and sophisticated instruments, to fully satisfy the training needs of the students and research and consultancy needs of the department as well. The department offers one UG programme (Two Sections) and one PG Programme (Structural Engineering). Conducting seminars, workshops and conferences on the latest developments in civil engineering, arranging expert lectures and industrial visits for the benefit of staff & students, is a regular feature in the department. The department also offers Consultancy Services for various Government and Private Agencies and has completed a good number of prestigious projects. It is a matter of great pride that this Department has submitted the draft for 'Water Policy' for the newly formed Telangana State. In last academic year, CED has organised one 6-Day AICTE sponsored training program on "Crying need of Bridges" and an International Conference "ICACE2022" in collaboration with Universities abroad and India. An interdisciplinary (with Mechanical Engg Dept.) project worth Rs. 9.89 lakhs sanctioned by DRDO is under progress. In the current academic year, CED has published 21 research papers in reputed peer reviewed Journals/ conferences. Also one patent has been granted and one is published. Students of the department are equally good in extracurricular & Co-curricular activities and received some awards as well.

ABOUT THE AICTE IDEA LAB OF CBIT

The aim of AICTE IDEA Lab in CBIT is to provide all facilities for conversion of an idea into a prototype. With these facilities in the campus, more students and faculty are being encouraged to take up creative work. In this process, students and faculty are getting trained on creative thinking, problem solving, collaboration etc. The IDEA Lab of CBIT is headed by Principal & Professor Dr. P. Ravinder Reddy, who is the chief mentor. The program is being actively guided by Dr. UK Choudhury, Director I & I. Dr. BVS Rao and Dr. P. Sathish are coordinators. We also have strong team of four Technical Gurus. The IDEA lab at CBIT is equipped with 10 3-D Printers, 50 Robotic Kits, About 600 Students have already undergone training for Digital Fabrication using 3-D Printers and IoT prototype development. So that they become technically capable and confident to convert idea into prototype. Presently the IDEA Lab at CBIT is also trying to reach schools and industries in and around Hyderabad, to train and motivate the students to use IDEA Lab in CBIT.

IMPORTANT DATES

Registration Deadline: 12 November 2023
Confirmation mail: 13 November 2023
Inauguration: 14 November 2023

Three-week Practice oriented Internship
On
Software Applications for Sustainable Civil Engineering (SASCE)
(Hybrid mode)
14th November to 5th December 2023

Organized by
DEPARTMENT OF CIVIL ENGINEERING
In Association with
AICTE Idea Lab
and
Indian Concrete Institute, Hyderabad Centre

Chaitanya Bharathi Institute of Technology
(Autonomous)

Affiliated to Osmania University
NAAC 'A++' and NBA-AICTE
ISO 9001:2015 Certified Institution
Kokapet (V), Gandipet (M), TS - 500 075

ABOUT THE INTERNSHIP

This internship is an excellent platform for students and researchers to gain knowledge on applications of different computational tools in Civil Engineering. Theoretical knowledge is not solely sufficient to work in real-field problems. Therefore, this internship mainly focuses on hands-on training on Basic statistics and soft computing techniques and its applicability in Civil Engineering. Research scope for optimization applications in Environmental Engineering, Application of Artificial intelligence Technique in Water Resource Engineering, Constitutive modelling in Geotechnical Engineering, Applications of soft computing techniques in geotechnical engineering, Activity based Travel demand modelling which requires an intense knowledge of relevant software and their working. Assessment will be done on a given project related to real-field application thereby enhancing the ability of the participants in carrying out its application in the future research. The proposed internship will be handled by experts from resource persons from universities of national repute and Industries.

WHO CAN ATTEND

Students (UG & PG)

VENUE

Department of Civil Engineering, CBIT (A), Gandipet, Hyderabad, 500075

REGISTRATION LINK

https://forms.gle/xxxxxxxxxxxxxx

REGISTRATION FEE

Rs. 1000/- per participant (includes Kit, hands-on, and Certificate)

Limited seat up to 50 nos. Register first to book your seat.

Bank details: xxxxxxxxxxxx

CONTACT

Dr. Angshuman Das, Asst. Prof.
Email: angshumandas_civil@cbit.ac.in
Phone: 9989016367

Dr. Kamalini Devi, Asst. Prof.
Email: kamalinidevi_civil@cbit.ac.in
Phone: 9337683749

ORGANISING COMMITTEE

Patron

Prof. C. V. Narasimhulu
Principal, CBIT (A)

Chairman

Dr. K. Jagannadha Rao
Professor & Head
Department of Civil Engineering, CBIT (A)

Convenors

Dr. Angshuman Das
Assistant Professor
Department of Civil Engineering, CBIT (A)

Dr. Kamalini Devi
Assistant Professor
Department of Civil Engineering, CBIT (A)

Coordinators

Dr. Dudam Bharath Kumar, Asst. Prof., CED
Sri. Ramanarayana Sankriti, Asst. Prof., CED
Dr. Srikanth Koniki, Asst. Prof., CED
Dr. Vishal Singh, Asst. Prof., CED
Dr. B. V. S. Rao, Coordinator, AICTE IDEA Lab CBIT

RESOURCE PERSONS

1. **Dr. Bhabani Shankar Das**
   Assistant Professor, NIT Patna
2. **Mr. Marie S R Rohith**
   Manager (Engg), Shivam section
   Sub division -3, O&M Division -5, HMWS&SB
3. **Dr. Arasuu Guharay**
   Associate Professor, BITS Pilani, Hyd Campus
4. **Dr. Priyadarshini Babu**
   Assistant Professor, VIT Vellore

Other Resource Persons from IITs and NITs

REGISTRATION FORM
For
Three-week Practice oriented Internship
On
Software Applications for Sustainable Civil Engineering (SASCE)
(Hybrid mode)
(14th November to 5th December 2023)

Name: _____
Designation: _____
Semester and Year: _____
Institute: _____
Mailing Address: _____
_____
Contact Number with STD Code
(Office): _____
(Mobile): _____
Email ID: _____
Transaction Id.: _____
Bank: _____, **Date:** _____
Signature: _____

QR code for registration fee:

Note: **The participants are requested to mention the subject name as "Registration Fee for Internship SASCE 2023" during payment.**

Fig1. Brochure of Software Applications for Sustainable Civil Engineering (SASCE-2023)

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Inaugural

Day-1 (14.11.2023)

An Inaugural ceremony for the internship program was conducted in D-Block Seminar hall at CBIT, Hyderabad on its first day. The inauguration function was started with lightening of the lamp the dignitaries. Then it started with Saraswati Bandhana. After that, Principal has addressed the gathering and motivated students for the internship. Head, CED has addressed the interns and highlighted about the department and its activities/ achievements. Director I&I focused on the AICTE Idea lab aim and objectives in helping to give the scope for different events. Convener Dr. Angshuman Das has foregrounded on the significance of conducting the internship and has accentuated evaluation process and rules and regulation of the internship program. Chief Guest has emphasized on the recent trends of developing ideas for new start-up and the skill development through the internship. Also, Dr. M. V. Venkateswara Rao brief about the role of Indian Concrete Institute in the Civil Engineering domain. Dr. Kamalini Devi, Convenor SASCE 2023 delivered vote of thanks at the end.

In the second session, the content of the program and role of different software in civil engineering domain was briefed to the interns. An introduction about different software such as MATLAB-ANN,ANFIS (prediction based on Dataset/Experimental observations), Excel-Linear regression (correlation based on different statistical methods), PLAXIS, Geostudio, GEO5 and ArcGIS was also delivered to the interns.

Fig 2. (a) Glimpses during inauguration of SASCE 2023, (b) Session 2 on briefing about the internship

Day-2&3 (15.11.2023 &16.11.2.23)

Dr. Bhabhani Shankar Das of NIT Patna delivared a lecture during session 3 on "Basic Statistical Methods in Civil Engineering." Next day a quiz test was conducted to evaluate the students' knowledge about application of Basic statistics in Civil Engineering. The session was followed by a Hands-on practice session for application of statistical methods using Microsoft Excel. The

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session was conducted by Dr. Angshuman Das, Dr. Kamalini Devi, and Dr. Vishal Singh of CBIT.

Fig 3. (a) Session 3 on Statistical methods by Dr. Bhabani Shankar Das, (b) Hands on session (session 4) for application of statistical methods using Microsoft Excel

Day-4&5 (17.11.2023 &18.11.2023)

On session 5, Dr. Priyadharshini. B, Assistant Professor, Centre for Disaster Mitigation and Management Vellore Institute of Technology, Vellore delivered a lecture on applicability of statistics for air quality monitoring. On the following day a hands on practice session on different method for error analysis was conducted by Dr. Kamalini Devi.

Fig 4. (a) Online lecture on air quality monitoring by Dr. Priyadharshini. B, (b) Hands on session (session 4) for error analysis methods to evaluate model performance using Microsoft Excel

Day 6&7 (20.11.2023 & 21.11.2023)

A session on Water supply system and distribution system in Hyderabad city by Er. Rohith SR Mane, manager, Water works (HMWSSB). The session was conducted to make the students aware of the current source of water supply system in the Hyderabad city and its distribution to

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different wards. On the same day, Prof. Umakanta Choudhury delivered an online lecture on idea, concept development and prototyping innovative ideas to motivate the students for innovation and research.

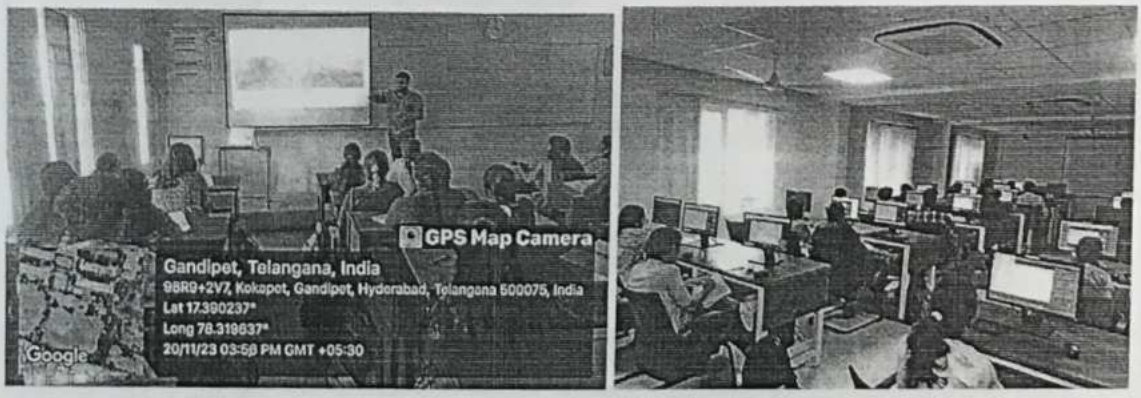

Fig 5. (a) Water supply system and distribution system in Hyderabad city by Er. Rohith SR Mane, (b) Online lecture by Prof. Umakanta Choudhury on idea, concept development and prototyping innovative ideas

Day 8&9 (22.11.2023 & 23.11.2023)

The session on 22nd November was conducted by Dr. Angshuman Das on the application of GeoStudio for slope stability analysis. On 23rd November, the session was conducted by Dr. Dudam Bharath Kumar on application of statistics in Environmental engineering.

Fig 6. Hands on slope stability analysis using Geostudio software on Basic of Geostudio

Day 10 (24.11.2023)

On 24th November, an online lecture was conducted on "Computation Modeling in Geomechanics Using Software" by Prof. Anasua GuhaRay from BITS Pilani Hyderabad Campus. In evening another session was conducted by Dr. Umakanta Chaudhury on Idea, concept development and prototyping innovative ideas.

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Fig 7. Online lecture on Idea, concept development and prototyping innovative ideas by Dr. Umakanta Chaudhury

Day 11 (29.11.2023), Reviw-1

Four days (25-11-2023 to 28-11-2023) were given to students for identifying and finalizing their project topic with corresponding guides. On 29-11-2023, the first review on student's project was conducted.

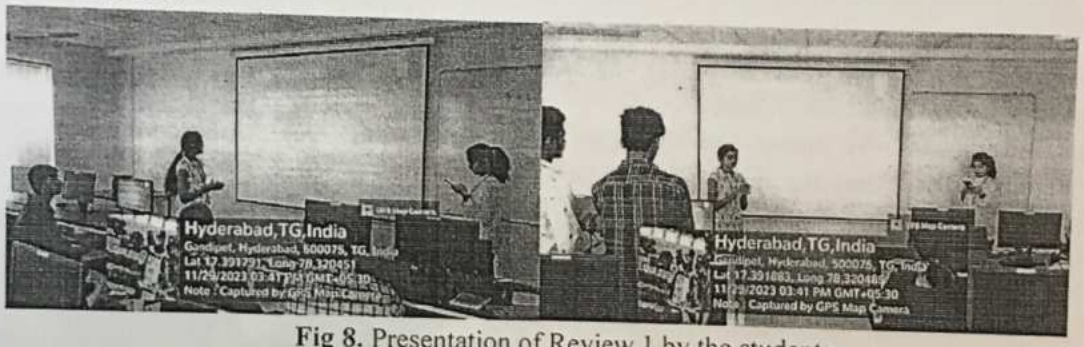

Fig 8. Presentation of Review 1 by the students

Day 12 (1.12.23), Reviw-2

On 01-12-2023, the second review on student's project was conducted where the methodology and work progress were evaluated by the committee.

Fig 9. Presentation of Review 2 by the students

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Day 13 (4.12.23), Reveiw-3

On 04-12-2023, the final review on student's project was conducted where the output and future work were discussed and evaluated by the committee.

Fig 10. Presentation of Review 3 by the students

Day 14 (5.12.23), Report evaluation

On 05-12-2023, the report was submitted by the students and further they are evaluated by the committee.

Day 15 (7.12.23), Valedictory Function

A Valedictory ceremony for the internship program on Software Applications for Sustainable Civil Engineering (SASCE) was conducted in N-Block Seminar hall at CBIT, Hyderabad on 15th June 2023. The program was started by welcoming the Dr. K. Jagannadha Rao, Head-CED and Chiarman SASCE-2023, Prof. U. K. Chaudhury, Advisor I&I, Dr. Angshuman Das, Assistant Professors, Convenor SASCE 2023 at the stage. At First Prof. K. Jagannadha Rao, Head-CED and Chairman SASCE-2023 has addressed the interns and congratulated all interns and appreciated the conveners & coordinators for successful completion of internship. Director I&I focused on the AICTE Idea lab aim and objectives in helping to give the scope for different events and appreciated the effort of civil engineering department, Conveners and coordinators. Convener Dr. Angshuman Das has briefed the concluding remarks of the internship and delivered vote of thanks. Convener Dr. Kamalini has announced the winners of best performers of the internship program at the end. Four students were awarded with best performer award. Cash prizes and merit certificates were given to all awardees. Teaching and non-teaching staff of Civil Engineering department and 41 nos. of interns from CBIT attended this valedictory program.

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Fig 11. Valedictory Function

During the valedictory session, certificates were presented to the interns upon the successful completion of the internship programme. Eight students out of forty nine students did not meet the eligibility criteria of getting the certificate. Feedback was taken from the interns on their recommendations for similar programs in future. The interns were very happy from the outcome of the internship.

Fig 12. Valedictory Function

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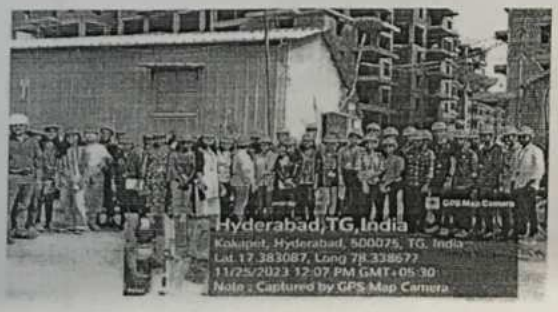
A Site Visit to SRR Sriram River View project at Narsingi, Gandipet Main Rd, Manchirevula

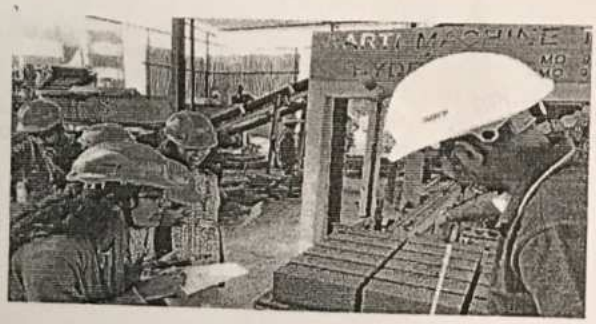
A site visit to SRR Sriram River View project at Narsingi, Gandipet Main Rd, Manchirevula is completed on 25th November 2023. The site is a 13.07 acre gated community which is currently in the construction phase.

Visit to the SRR Sriram River View project was planned for the interns to make them understand the practical aspects of civil construction works. The project is construction of a community living with several facilities including water treatment plant, sewage treatment plant, etc. The community include 10 blocks of G+11 storeyed buildings. At the basement there is a two floor car parking facilities. The buildings are in construction phase.

In addition, one batching plant with capacity of 15 m^3 and one fully automatic brick manufacture plant are available at the site. Both the plants are working very efficiently. Those plants are extensively used in current time in different high rise building constructions. For the brick preparation they are using Fly ash, a waste material that can partially replace the cement. The site engineer and other team members were very cooperative and explained each and every facility clearly to our students/ Interns. A total of 40 Interns have participated in this visit. Three faculty members, Dr. Angshuman Das, Dr. Kamalini Devi, and Dr. Dudam Bharath Kumar, Assistant Professors, Department of Civil Engineering, CBIT (A), accompanied the students for the visit.

Glimpses of site visit to SRR Sriram River View project at Narsingi





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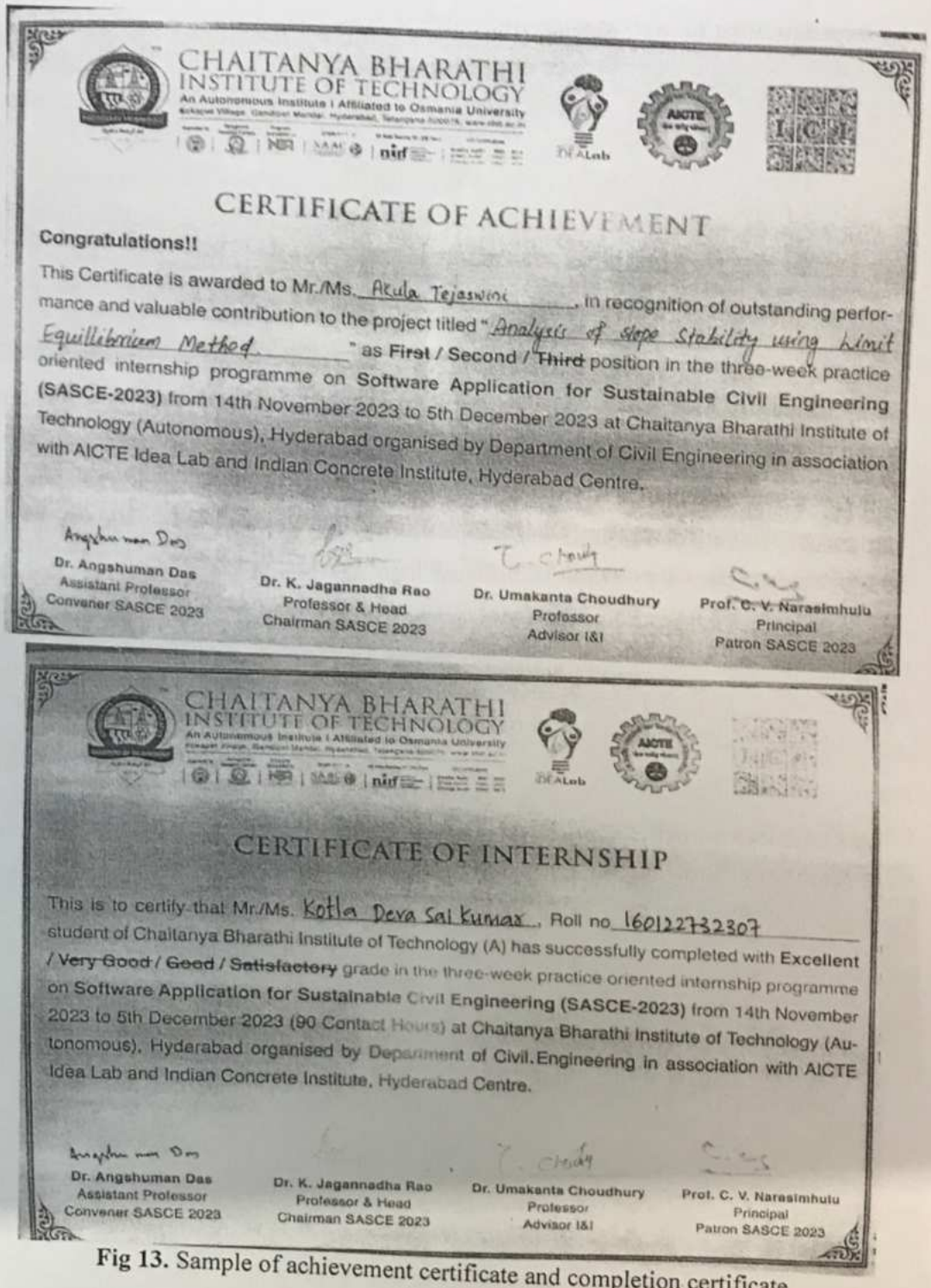

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CERTIFICATE OF ACHIEVEMENT

Congratulations!!

This Certificate is awarded to Mr./Ms. Akula Tejaswini, in recognition of outstanding performance and valuable contribution to the project titled "Analysis of slope Stability using Limit Equilibrium Method." as **First / Second / ~~Third~~** position in the three-week practice oriented internship programme on **Software Application for Sustainable Civil Engineering (SASCE-2023)** from 14th November 2023 to 5th December 2023 at Chaitanya Bharathi Institute of Technology (Autonomous), Hyderabad organised by Department of Civil Engineering in association with AICTE Idea Lab and Indian Concrete Institute, Hyderabad Centre.

Dr. Angshuman Das	Dr. K. Jagannadha Rao	Dr. Umakanta Choudhury	Prof. C. V. Narasimhulu
Assistant Professor	Professor & Head	Professor	Principal
Convener SASCE 2023	Chairman SASCE 2023	Advisor I&I	Patron SASCE 2023

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CERTIFICATE OF INTERNSHIP

This is to certify that Mr./Ms. Kotla Deva Sai Kumar, Roll no 160122732307 student of Chaitanya Bharathi Institute of Technology (A) has successfully completed with **Excellent / ~~Very Good~~ / ~~Good~~ / ~~Satisfactory~~** grade in the three-week practice oriented internship programme on **Software Application for Sustainable Civil Engineering (SASCE-2023)** from 14th November 2023 to 5th December 2023 (90 Contact Hours) at Chaitanya Bharathi Institute of Technology (Autonomous), Hyderabad organised by Department of Civil Engineering in association with AICTE Idea Lab and Indian Concrete Institute, Hyderabad Centre.

Dr. Angshuman Das	Dr. K. Jagannadha Rao	Dr. Umakanta Choudhury	Prof. C. V. Narasimhulu
Assistant Professor	Professor & Head	Professor	Principal
Convener SASCE 2023	Chairman SASCE 2023	Advisor I&I	Patron SASCE 2023

Fig 13. Sample of achievement certificate and completion certificate

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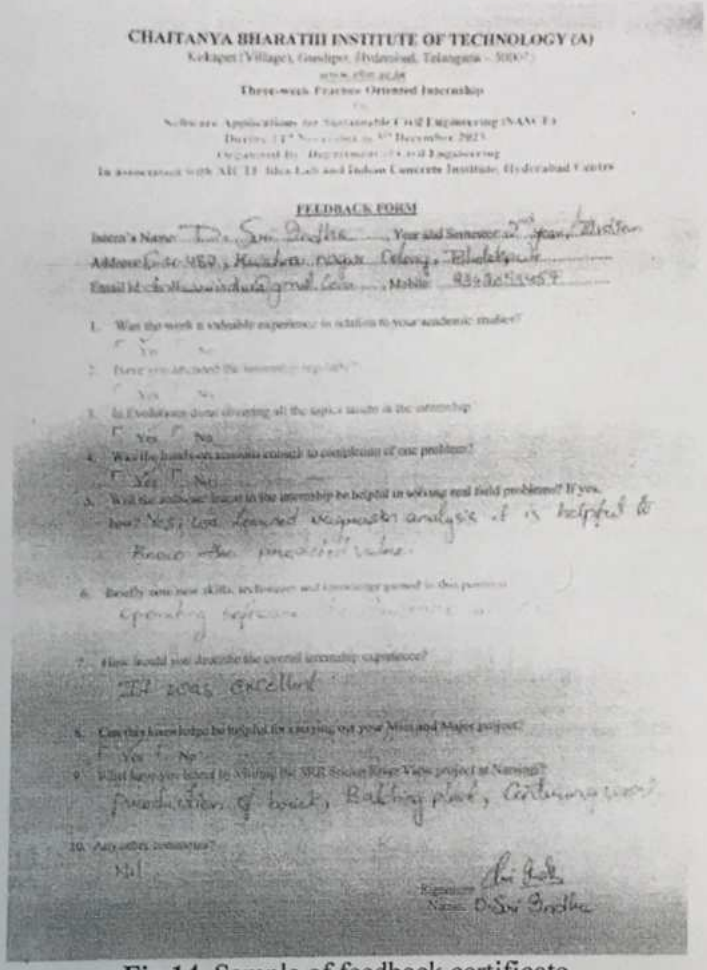

CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY (A)

Kokapet (Village), Gandipet, Hyderabad, Telangana - 500075

www.cbit.ac.in

Three-week Practice Oriented Internship

On

Software Applications for Sustainable Civil Engineering (SASCE)

During 11th November to 5th December 2023

Organised by Department of Civil Engineering

In association with ACCE Idea Lab and Indian Concrete Institute, Hyderabad Centre

FEEDBACK FORM

Intern's Name: Dr. Sri Indika, Year and Semester: 2nd year, Hyderabad

Address: E-40-480, Kushaiguda nagar Colony, Bholeknapur

Email Id: [illegible], Mobile: [illegible]

1. Was the work a valuable experience in relation to your academic studies?
   Yes No
2. Have you attended the internship regularly?
   Yes No
3. Is Evolutions done covering all the topics taught in the internship?
   Yes No
4. Was the hands-on sessions enough to completion of one problem?
   Yes No
5. Will the software learnt in the internship be helpful in solving real field problems? If yes, how? Yes, we learned sequential analysis it is helpful to know the predicted value.
6. Briefly note new skills, techniques and knowledge gained in this position
   operating software
7. How would you describe the overall internship experience?
   It was excellent
8. Can this knowledge be helpful for carrying out your Mini and Major project?
   Yes No
9. What have you learnt by visiting the SRR Sricket River View project at Narsingi?
   Production of brick, Batching plant, Centuring work
10. Any other comments?
    Nil

Signature: [signature]

Name: Dr. Sri Indika

Fig 14. Sample of feedback certificate

Prepared by:
Convener: Dr. Angshuman Das and Dr. Kamalini Devi
Coordinator: Sri Ramanarayan Sankriti

Angshuman Das

Convenor
SASCE-2023

Chairman
SASCE-2023

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Engineer's Day 2023

CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY (Autonomou
GANDIPET, HYDERABAD- 500075

DEPARTMENT OF CIVIL ENGINEERING

Date= 16/09/202

Report on

Engineer's Day celebration and Guest Lecture on "Glimpses of Dam Safety" and under aegis of Civil Engineering Association, Department of Civil Engineering at CBIT

National Engineer's Day is cerebrated every year as tribute to the Indian Engineer and Bharat Ratna Sir Mokshagundam Visvesvaraya's contribution towards Nation building. The day is observed to commemorate the great work of engineers and to encourage them for improvement and innovation. Engineer's Day is celebrated at Chaitanya Bharathi Institute of Technology Hyderabad under the aegis of Civil Engineering Association (CEA), Department of Civil Engineering in view of the 162nd Birth Anniversary of Sir M. Visvesvaraya on 15-09-2023. Forty teaching and non-teaching staffs and 150 students from CBIT attended this program.

The program was started by welcoming the Principal and Patron Prof. C. V Narsimhulu, Chief Guest Dr. P. Rama Raju, (Retd.) Engineer-in chief, State irrigation Dept., Dr. K. Jagannadha Rao, Head-CED and Chairman, Dr. Jnana Ranjan Khuntia, Convenor and Faculty Coordinator of CEA at the stage. The function was started with lightening of the lamp by the dignitaries and an invocation song of Lord Ganesh. After that, Principal has delivered welcome address and wished all on the occasion of Engineer's day. Also, he motivated students for the future endeavours. Head, CED has addressed the gathering and highlighted some notable contribution done by Sir MV for the society. He also emphasized the work that Sir MV done not only for India but also for other countries. Faculty coordinator has addressed on this occasion and briefed about the CEA & its objectives. Chief Guest has emphasized on the recent trends of water resources and Sustainable constructions of civil engineers. Further, chief guest has delivered an excellent talk on "Glimpses of Dam Safety". He emphasized on the dam construction challenges, issues and solutions with some case studies. He also appreciated the student's response and interest. At the end Head, CED thanked the speaker. Also, three executive engineers form Telangana state Govt. have attended the program and addresses the gathering.

Organising Committee:

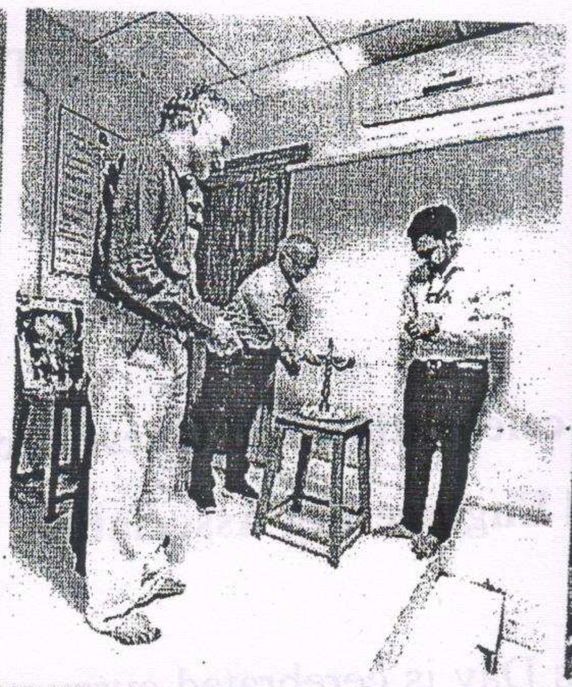
Patron: Dr. C.V. Narsimhulu, Principal, CBIT (A), Hyderabad

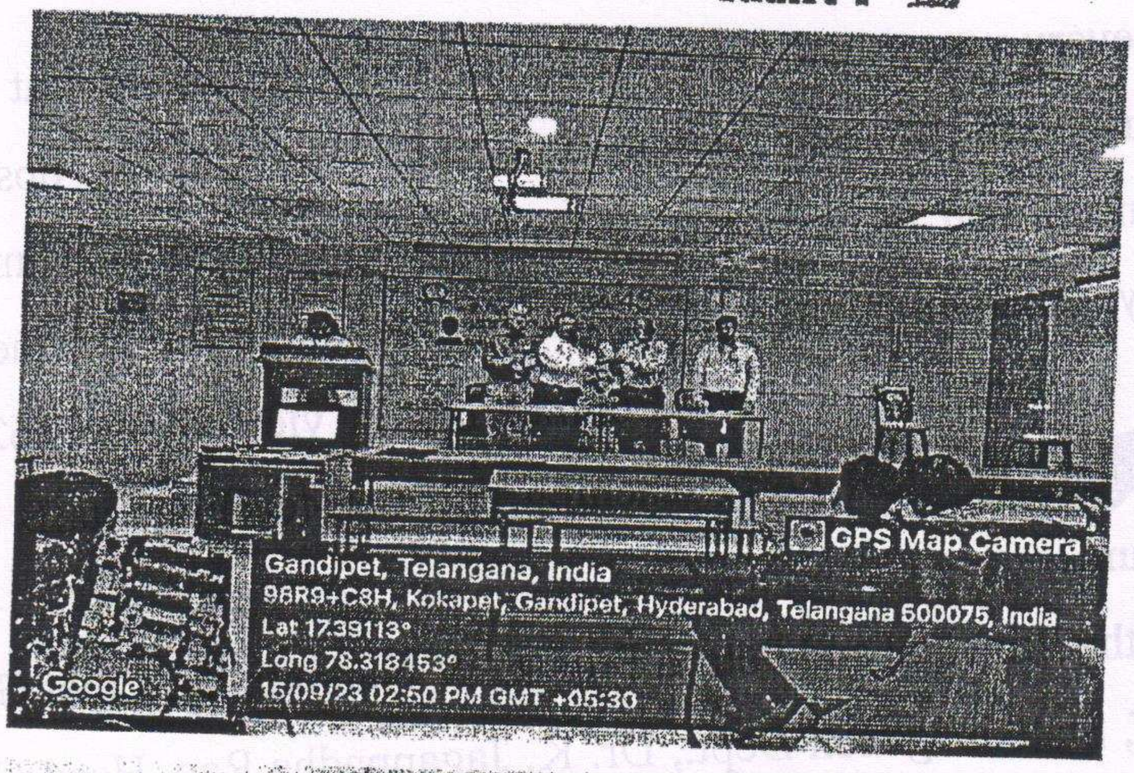
Chairman: Dr. K. Jagannadha Rao, Professor and Head-CED

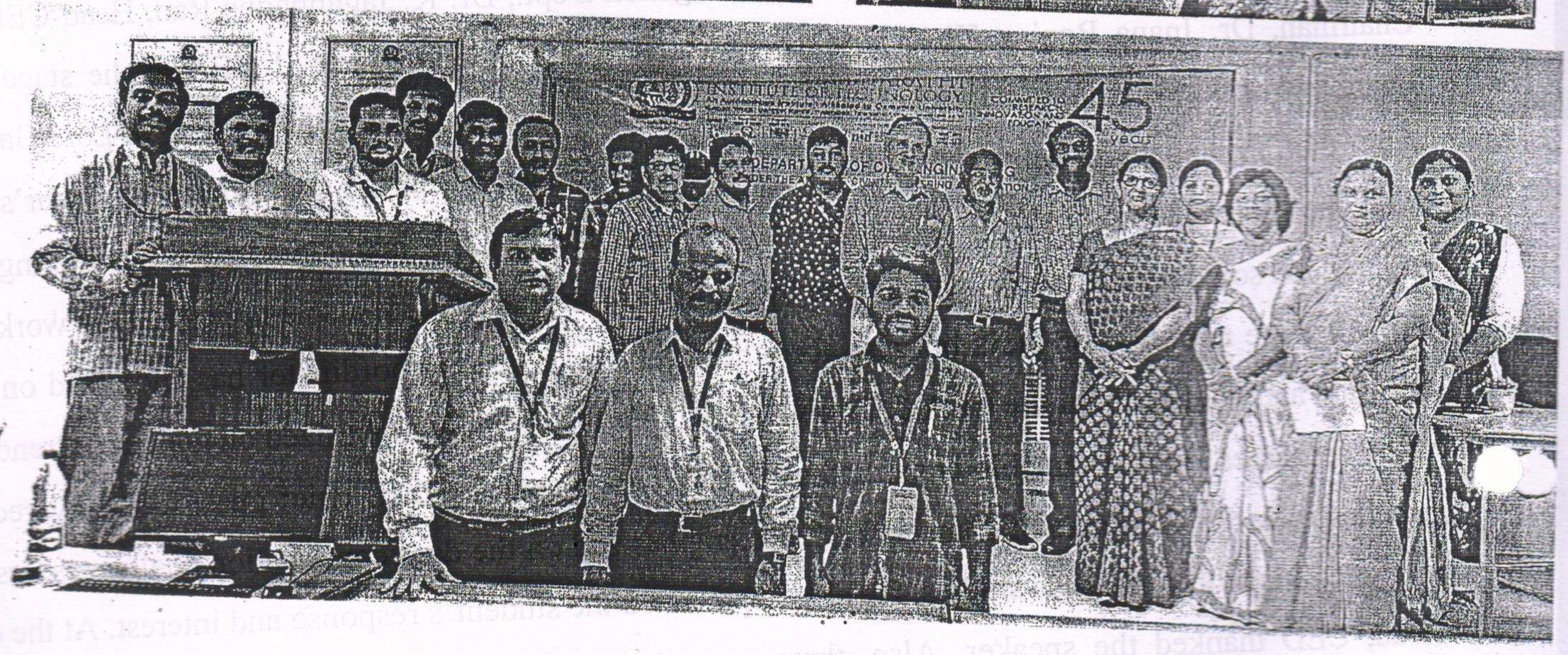
Convener: Dr. Jnana Ranjan Khuntia, Faculty Coordinator, CEA

Student Volunteer: Mamatha, Sahithi, Cherishma P., Lalittha A., Bharagavi S., Nitish K, Sreeya M., Esha.

Some Glimpses during Engineer's Day Celebration and Guest Lecture:







Convener 16/09/2023
Dr. Jnana Ranjan Khuntia
Faculty Coordinator, CEA

18/9/23
Chairman
Dr. K. Jagannadha Rao
Head, CED

PROFESSOR & HEAD
Department of Civil Engineering
Birla Institute of Technology

Date: 27-12-2023

ACTIVITY REPORT ON SITE VISIT TO NIRDPR

Department of Civil Engineering conducted a rural development institute visit for B.E. Civil Engineering, I-Semester (Section: A1 and A2) as a part of Community Engagement course work to National Institute of Rural Development and Panchayat Raj (NIRDPR), Rajendranagar, Hyderabad on 15th December 2023. Sri E. Maheshwar Reddy, Sri. Vishwanath Gopisetty and Dr. Kakara Srikanth Assistant Professors, Department of Civil Engineering were the coordinators for the visit.

1. Name of the Activity / Event: Site Visit to National Institute of Rural Development and Panchayat Raj
2. Programme: Rural Development Institute Visit (Site Visit to NIRDPR)
3. Activity/ Event Venue and Date: 15-12-2023, NIRDPR, Rajendranagar, Hyderabad
4. Nature of Participants: First year Students of Civil Engineering branch (Section: A1 and A2)
5. No. of Participants: 122
6. Student Coordinator: N. Thanvi Reddy (Section: A1) and D. Pragna Reddy (Section: A2)
7. Staff Coordinators: Sri E. Maheshwar Reddy, Sri. Viswanath G and Dr. K. Srikanth Assistant Professors, Department of Civil Engineering.

The focus of the visit was to explore eco-friendly methods in building houses and various other structures, emphasizing sustainability and environmental consciousness and provide valuable insights into innovative and sustainable approaches to construction. The institute's initiatives not only contribute to sustainable development but also serve as a model for other regions aiming to balance progress with environmental responsibility. The integration of these practices into rural development projects reflects a holistic approach towards creating resilient and environmentally conscious communities. Encouraging the adoption of similar eco-friendly practices in rural development projects nationwide can lead to a more sustainable and resilient future. Collaboration between government bodies, communities, and educational institutions can further amplify the impact of such initiatives. This visit to NIRDPR has been enlightening, emphasizing the pivotal role that eco-friendly practices play in shaping a sustainable future for rural communities. The eco-friendly practices observed at NIRDPR are instrumental in fostering sustainable rural development. These practices contribute to environmental conservation by reducing carbon emissions and promoting responsible resource use. The students gained invaluable insights into the various sustainable and environmental friendly construction practices of the rural communities.

Fig: Eco-Friendly Model House

Fig: Students at NIRDPR

Faculty Co-ordinator
Community Engagement course

Head
Department of Civil Engineering

ACTIVITY REPORT ON CLIMATE IMPACTS: ROLE OF TECHNOLOGY

1. Name of Activity / Event	:	Climate Impacts: Role of Technology
2. Programme	:	Seminar on Climate Impacts: Role of Technology
3. Activity / Event Date and Venue	:	09-12-2023, CBIT Campus
4. Participants	:	Students of CBIT
5. No. of Participants	:	65
6. Chaitanya Parivrita Club Student Coordinator	:	Oggu Akshitha Priya
7. Chaitanya Parivrita Club Staff Coordinator	:	E. Maheshwar Reddy, Asst. Prof., CED.

On 09-12-2023, Department of Civil Engineering under the aegis of Parivrita Club Council for Green Revolution-An Environmental Organization and Council for Earth Leadership and Sustainability (CELS) organised Seminar on “Climate Impacts: Role of Technology”.

Dr. Sai Bhaskar Reddy Nakka Director, The Earth Center, Executive and Management committee member Council for Green Revolution (CGR) given lecture on global warming climate change is a significant environmental and social issue worldwide. Climate change, often referred to as global warming, is a result of increasing levels of atmospheric CO2 and other greenhouse gases emitted primarily by human activities such as cars and factories. The consequences of climate change encompass not only global warming but also alterations in precipitation, sea level changes, and more frequent extreme weather events. These impacts have been affecting us for some time now, and they are becoming increasingly evident.

Dr Babu Rao Kalapala, Retired Scientist, IICT and environmental campaigner explained that climate change is a pressing global issue caused by various factors, including carbon emissions, volcanic eruptions, and solar radiation. Human activities like fossil fuel combustion, deforestation, and vehicular pollution play a significant role. These changes have led to more frequent and severe extreme weather events and threaten biodiversity.

PARTICIPANTS LIST

Sl. No.	Roll No.	Name of the student	Semester	Signature
01.	1601-23-732-074	B. Chandana	I	B. Chandana
02.	1601-23-732-082	N. Yamini	I	Yamini
03.	1601-23-732-081	M. Akhila	I	Akhila
04.	1601-23-732-087	S. Shalini	I	S. Shalini
05.	1601-23-732-083	P. Nanya	I	[illegible]
06.	1601-23-732-072	A. Ashwitha	I	[illegible]
07	1601-23-732-077	D. Pragna	I	[illegible]
08	1601-23-732-075	B. Deekshitha	I	[illegible]
09	1601-23-732-086	S. Yashashwarani	I	yashashwarani
10	1601-23-732-073	B. Mamatha	I	[illegible]
11.	1601-23-732-078	Faiza Sultana	I	[illegible]
12.	1601-23-732-079	G. Charitha	I	Charitha
13.	1601-23-732-080	J. Nagalaxmi	I	J. [illegible]
14.	1601-23-732-071	A. Vaishnavi Reddy	I	Reddy
15.	1601-23-732-085	S. Rishitha	I	rishy
16.	1601-23-732-076	B. yashashwi	I	yashashwi
17.	1601-23-732-094	ch. ram gopal singh	I	[illegible]
18.	1601-23-732-107	K. SAI KARTHIK ACHARY	I	Achary
19	1601-23-731-105	K. Vasanth	I	K. Vasanth
20	1601-23-732-093	B. Nikhil	I	Nikhil
21	1601-23-732-090	B. Manoj Kumar	I	B. Manoj
22	1601-23-732-091	B. Ajay	I	B. Ajay
23	1601-23-732-131	T. yaswanthraj	I	[illegible]
24	1601-23-732-098	E. Shiva prasad	I	E. Shiva
25	1601-23-732-096	D. Mothilal	I	Mothilal
26.	1601-23-732-089	Ayyan Ahmed Khan	I	Ayyan

Sl. No.	Roll No.	Name of the student	Semester	Signature
27.	1601-23-732-129	T. Udbhav Goud	I	[illegible]
28.	1601-23-732-123	R. Vijay	I	R. Vijay
29.	1601-23-732-095	D. Sridhar	I	[illegible]
30	1601-23-732-121	Phalaresh Goud	I	[illegible]
31	1601-23-732-127	Samith Reddy	I	[illegible]
32.	1601-23-732-100	G. Ganguly	I	[illegible]
33	1601-23-732-103	K. Vamshi	I	Ganguly
34	1601-23-732-125	S. Vimal	I	B. Vamshi
35	1601-23-732-125	G. Santhosh Kumar	I	S. Vimal
36	1601-23-732-097	E. Sathvik	I	G. Santhosh Kumar
37	1601-23-732-119	P. Sami Reddy	I	[illegible]
38.	1601-23-732-088	A. Ganapathi	I	[illegible]
39	1601-23-732-116	N. Surya	I	[illegible]
40	1601-23-732-118	P. Habhi Vardhan	I	[illegible]
41	1601-23-732-92	Bhargav	I	Bhargav
42	1601-23-732-115	N. Manikanta Sai Reddy	I	[illegible]
43	1601-23-732-109	M. Sai	I	Sai
44	1601-23-732-101	G. Ruthvik	I	[illegible]
45	160-23-732-102	J. Rajesh	I	[illegible]
46.	1601-23-732-120	P. Sumanth	I	[illegible]
47.	1601-23-732-124	S. Naveen	I	S. Naveen
48.	1601-23-732-111	M. Rahul	I	M. Rahul
49.	1601-23-732-112	M. Dilson	I	M. Dilson
50.	1601-23-732-113	M. Dashwanth	I	[illegible]
51.	1601-23-732-108	M. Kereeti	I	[illegible]
52.	1601-23-732-104	K. Benjamen	I	K. Benjamen
53.	1601-23-732-110	Shashank	I	[illegible]

E. M Ren

Faculty Co-ordinator
Chaitanya Parivrita Club
E. Maheshwar Reddy
Assistant Professor
Dept. of Civil Engg.

DEPARTMENT OF CIVIL ENGINEERING

Report on Guest Lecture

"Building the Future: Civil Engineers as Community Architects"

Civil Engineering Association (CEA) of Department of Civil Engineering, CBIT has organized a Guest Lecture on "Building the Future: Civil Engineers as Community Architects" on 02-11-2023. Faculty members and 200 students from CED, CBIT attended this guest lecture.

Dr. K. Jagannadha Rao, Head, CED has welcomed the audience and briefed about the department, activities & achievements. Dr. Jnana Ranjan Khuntia, Asst. Professor, CED, Faculty coordinator has briefed about the CEA & its objectives. Guest speaker Er. G. Nanda Kishore, President, SNG & Associates, Inc., Pleasanton, CA has emphasized role of civil engineers in modern communities and the evolution of Civil Engineering in building modern communities. He also talked how do civil engineers build communities? His way of explaining the various stages of Civil Engineering projects right from project preparation to planning, design, execution, project management including tendering etc. is laudable and was well received by the students. At the end of his talk, he has shown a sample project of Tracy hills, Tracy, CA and concluded with future trends in civil engineering. The speaker appreciated the student's strength, response and interest shown. His interaction with the students was fruitful and he also appreciated the participation of the students. Head-CED thanked the speaker for his informative and inspiring talk. At the end, the Principal, Prof. C. V. Narsimhulu felicitated the speaker with a memento and shawl.

The faculty members interacted with the speaker before commencement of the lecture in the chamber of HoD. HoD discussed with Er. G. Nanda Kishore about possible collaboration on certain academic activities like, internship and projects to the students, guest lectures, seminars etc.

Organising Committee:

Principal: Dr. C.V. Narsimhulu, Professor

Head, CED: Dr. K. Jagannadha Rao, Professor

Faculty Coordinator, CEA: Dr. Jnana Ranjan Khuntia, Assistant Professor

Student Volunteers: Revanth, Vaishnavi, Amulya, Mamatha, Nitish K, Esha.

Some Glimpses during Guest Lecture:

CBIT organized a Guest Lecture on "Building the Future"

DECCAN NEWS SERVICE
HYDERABAD

Civil Engineering Association (CEA) of Department of Civil Engineering, CBIT has organized a Guest Lecture on "Building the Future: Civil Engineers as Community Architects" on 02-11-2023. Prof. K. Jagannadha Rao, Head, CED has welcomed the audience and briefed about the department, activities & achievements. Dr. Jnana Ranjan Khuntia, Asst. Professor, CED, Faculty coordinator has briefed about the CEA & its objectives. Guest speaker Dr. G. Nanda Kishore, President, SNG & Associates, Inc., Pleasanton, CA has emphasized role of civil engineers in modern communities and the evolution of civil engineering in building modern communities. He also talked how civil engineers build communities. At the end of his talk, he has shown some sample project of Tracy hills, Tracy, CA and concluded with future trends in civil engineering. He also appreciated the student's strength, response and interest shown and interaction. Head-CED thanked the speaker for his informative and inspiring talk. At the end, the Principal of the college Prof. C. V. Narsimhulu felicitated the speaker with a memento and shawl.

Dr. Jnana Ranjan Khuntia
Faculty Coordinator, CEA

Dr. K. Jagannadha Rao
Head, CED

CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY (Autonomous)

GANDIPET, HYDERABAD- 500075

DEPARTMENT OF CIVIL ENGINEERING

Report on

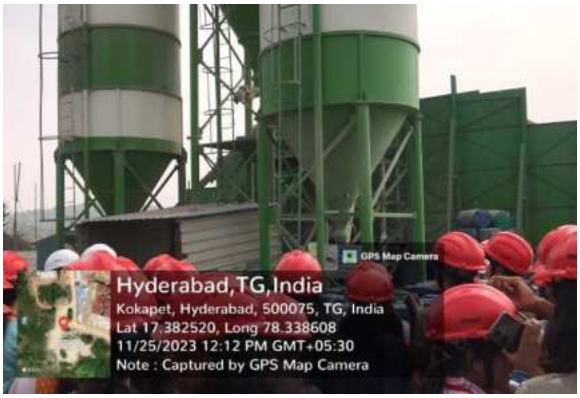
Site Visit to SRR Sriram River View project at Narsingi, Gandipet Main Rd, Manchirevula

A site visit to SRR Sriram River View project at Narsingi, Gandipet Main Rd, Manchirevula is completed on 25th November 2023. The site is a 13.07 acre gated community which is currently in the construction phase.

Visit to the SRR Sriram River View project was planned for the interns to make them understand the practical aspects of civil construction works. The project is construction of a community living with several facilities including water treatment plant, sewage treatment plant, etc. The community include 10 blocks of G+11 storeyed buildings. At the basement there is a two floor car parking facilities. The buildings are in construction phase.

In addition, one batching plant with capacity of 15 m^3 and one fully automatic brick manufacture plant are available at the site. Both the plants are working very efficiently. Those plants are extensively used in current time in different high rise building constructions. For the brick preparation they are using Fly ash, a waste material that can partially replace the cement. The site engineer and other team members were very cooperative and explained each and every facility clearly to our students/ Interns. A total of 40 Interns have participated in this visit. Three faculty members, Dr. Angshuman Das, Dr. Kamalini Devi, and Dr. Dudam Bharath Kumar, Assistant Professors, Department of Civil Engineering, CBIT (A), accompanied the students for the visit.

Glimpses of site visit to SRR Sriram River View project at Narsingi



Head, CED

Data Science for Engineers

Duration: October 7, 2023 – December 2, 2023

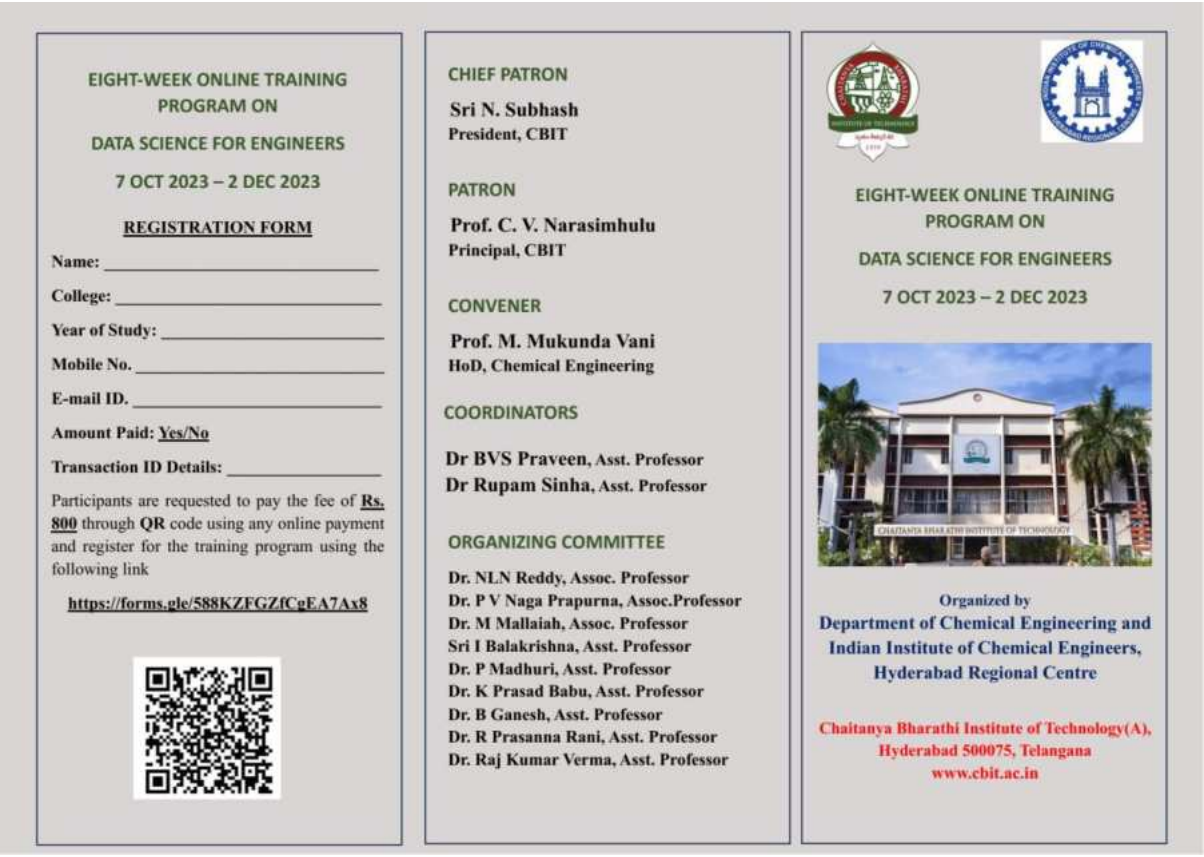
Resource Persons:

- Mr. B Sai Hitesh, Data Scientist, Ingenero, Thane, Maharashtra
- Mr. K Moulish, Aero & Thermal Engineer, Alstom, Hyderabad
- Mr. B Avinash Maran, Manager, Ashok Leyland

No. of Students: 50

Overview

This workshop aimed to provide engineering professionals with an in-depth understanding of Data Science and Machine Learning, tailored with examples in Chemical Engineering. Through a structured curriculum and hands-on assignments, participants gained practical experience in Python programming, data visualization, data preprocessing, feature selection, dimensionality reduction, and model building.



ABOUT CBIT

Established in 1979, Chaitanya Bharathi Institute of Technology (CBIT) is the premier engineering institute in Telangana and Andhra Pradesh. Founded by visionaries from diverse fields, including engineering, medical, legal, and management, CBIT aims to provide top-quality engineering and management education, addressing the nation's need for skilled engineers and management professionals.

Over four decades, CBIT has become a coveted destination for students aspiring to excel in engineering and management, educators seeking fulfilling careers, and corporations searching for well-rounded engineers. The institute's rigorous academic standards, industry-aligned teaching methods, research projects, and consultancy practices have solidified its identity in technical education, earning it the top rank among private engineering colleges in the Telugu-speaking states. CBIT's commitment to holistic education is evident through its diverse academic, practical, co-curricular, and extra-curricular programs, fostering multi-skilled personalities and future leaders. With state-of-the-art facilities, including labs, libraries, sports amenities, and a serene 50-acre campus, CBIT continues its relentless pursuit of academic excellence nationally and internationally, making it a leader and innovator in engineering higher education.

ABOUT DEPARTMENT

Established in 1995, our institute's Department of Chemical Engineering has become a prestigious choice for aspiring chemical engineers. Initially enrolling 40 students, the program expanded to accommodate 60 students by 1997. Accredited by the NBA since 2004 and consistently reaccredited in 2008, 2012, and 2017, our graduates find diverse career paths, including MNC placements, teaching, research, and further studies in India and abroad. Some even venture into entrepreneurship. The department ensures holistic development through co-curricular activities, seminars, industrial visits, and workshops. Collaborations with the Biotechnology, Chemistry, Mathematics, and Physics departments under the 'Centre of Life Sciences Research umbrella promote interdisciplinary research. Additionally, our energetic staff actively engage in institute-level initiatives, fostering a vibrant academic environment.

ABOUT THE TRAINING PROGRAM

The Data Science Course shows how to use machine learning and artificial intelligence using Python to automate chemical engineering manufacturing plants as a part of Industry 4.0.

This course starts from the basics of data science, programming, and various libraries available for data science applications.

The course is designated for students, teachers, engineers, and researchers in Plant Automation, R&D, and Data Scientists with Plant knowledge. The course has a huge scope of learning in three phases: beginner, intermediate, and advanced level.

The topics covered are:

- Introduction to Data Science and Machine Learning
- Introduction to Python
- Data Types and data structures
- Data visualization and data preprocessing
- Feature selection & Dimensionality Reduction
- Model building using machine learning
- Cross Validation, additional models in Python, Model Evaluation
- Weekly assignment
- Case studies and Tests

RESOURCE PERSONS

Mr B Sai Hithesh,
Data Scientist, Ingenero, Thane, Maharashtra

Mr K Moulish
Aero & Thermal Engineer, Alstom, Hyderabad

TARGETED PARTICIPANTS

This course is for students/Faculty/industry personnel from any engineering branch.

CERTIFICATION

E-Certificate will be issued to those participants who attend all the program sessions and clear the online exam as per the norms.

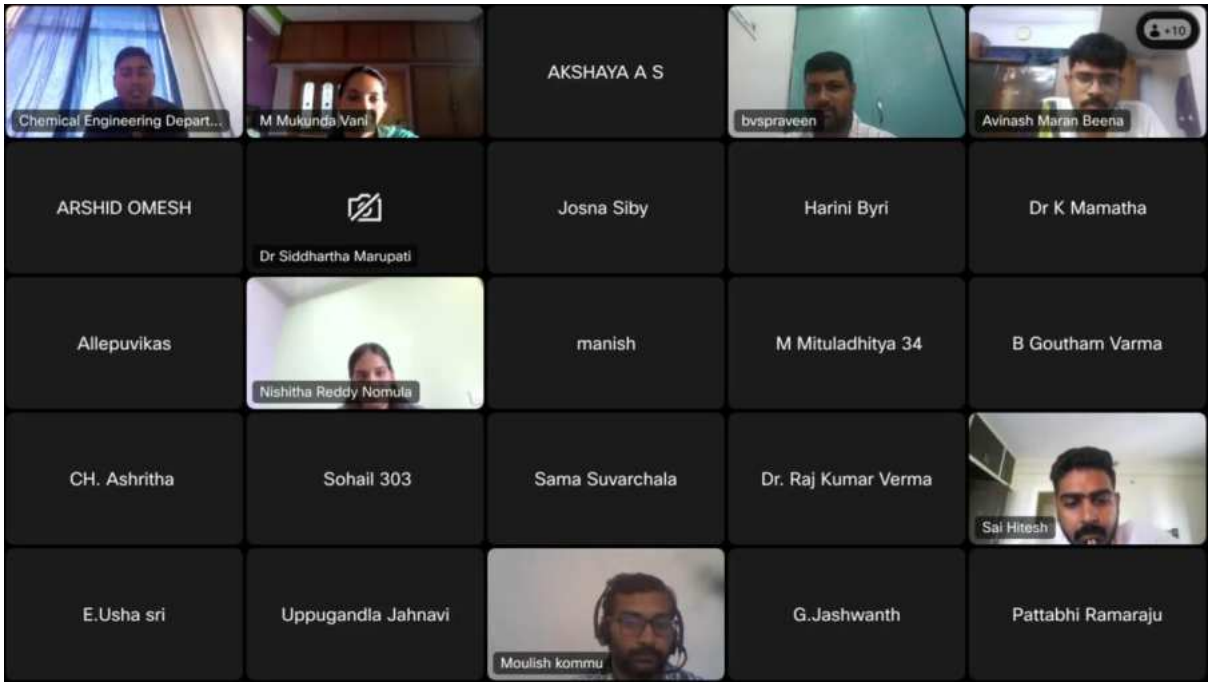
CONTACT US

Dr BVS Praveen, Asst. Professor,
bvspraveen_chem@cbit.ac.in.
+91 9791074572

Dr. Rupam Sinha, Asst. Professor,
rupamsinha_chem@cbit.ac.in.
+91 8473935154

Report

The Data Science for Engineers workshop was held from October 7, 2023, to December 2, 2023, designed to provide engineering professionals with a comprehensive understanding of data science and machine learning, with a particular focus on applications within Chemical Engineering. Guided by experienced resource persons, including Mr. B Sai Hitesh, Data Scientist, Mr. K Moulish, and Mr. B Avinash Maran, participants engaged in an in-depth curriculum that included both theoretical instruction and practical application.



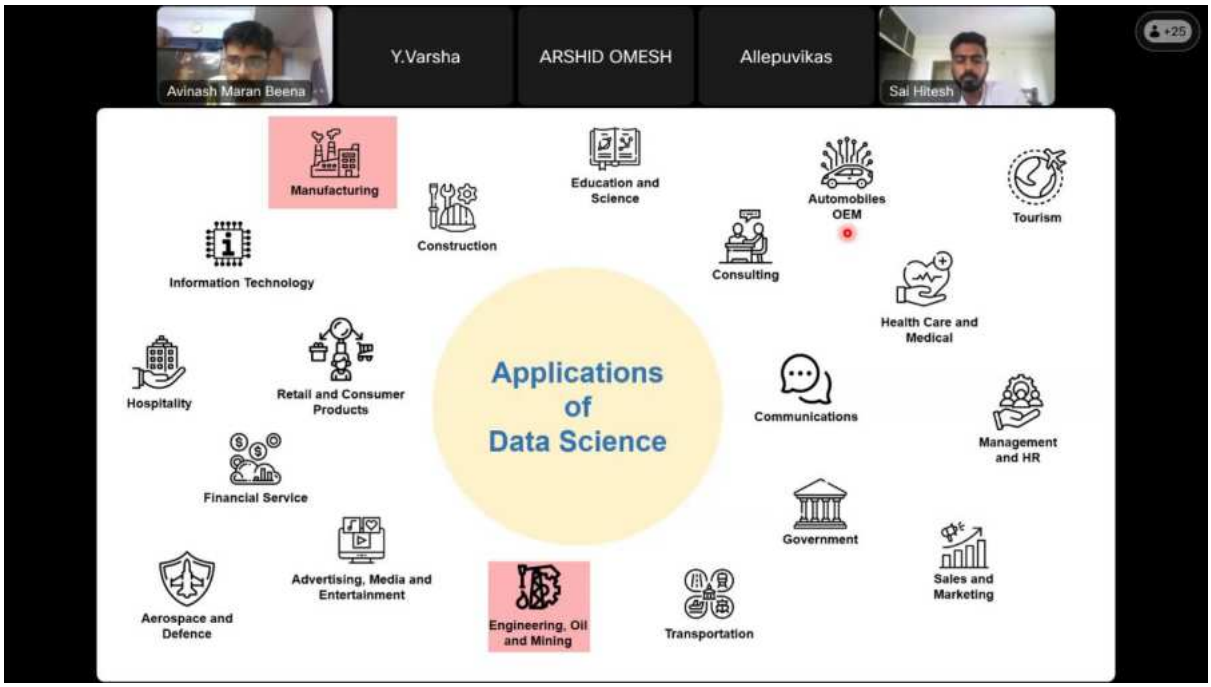
Inaugural Session of Data Science for Engineers

The workshop began with an introduction to Data Science and Machine Learning, where participants learned about foundational concepts, terminology, and real-world engineering applications. The initial sessions included demonstrations of how data science techniques could be applied within chemical engineering. The installation of Python on Windows was also covered, setting the stage for subsequent hands-on programming modules. Following this, the participants were introduced to Python programming and the Jupyter Notebook environment, which would serve as the primary tools for implementing various data science techniques.

With the basics established, the curriculum moved into more advanced areas, starting with data types and data structures. Participants learned to work with data frames, matrices, and Excel imports in Python, which are critical skills for handling data in real-world applications. Each module was paired with assignments, allowing participants to reinforce their learning through

practical exercises, and was supplemented by case studies on data types and structures to illustrate real-life applications.

Data visualization and preprocessing were given considerable focus in the following sessions, covering topics such as the classification of variables, outlier treatment, and handling missing values. Through various libraries in Python, participants were exposed to an array of plotting techniques, such as box plots, histograms, QQ plots, and residual plots, gaining insights into how data visualization supports effective data analysis and interpretation. The importance of data cleaning and preprocessing was emphasized through case studies and assignments.



Glimpse of Classes conducted as part of the workshop

The next phase delved into feature selection and dimensionality reduction, introducing participants to statistical tools like the correlation matrix, Pearson and Spearman correlations, and the Variance Inflation Factor (VIF) to identify and select significant features. Dimensionality reduction techniques, particularly Principal Component Analysis (PCA), were also covered in detail, with live examples in Python that demonstrated the process of simplifying datasets without sacrificing valuable information.

Model building formed a major part of the workshop's final sessions, where participants explored regression and classification techniques. By working with Scikit-Learn and TensorFlow libraries, they learned to implement machine learning models such as linear and logistic regression, support vector machines, and decision trees. Concepts of supervised and

unsupervised learning were introduced, along with decision tree structures and their various types. Following each session, assignments allowed participants to build, refine, and evaluate their models, enhancing their technical skills in applying machine learning to real-world data.

The workshop concluded with an introduction to cross-validation and model evaluation metrics, focusing on the importance of validating machine learning models and understanding evaluation methods like K-Nearest Neighbors (KNN) and other metrics. These sessions also discussed the differences between deep learning and machine learning, expanding participants' knowledge of the broader landscape of data science. Case studies and final assignments on model evaluation helped to reinforce these concepts, while a final preparation and examination session offered a comprehensive review and assessment of the skills acquired.

Valedictory session conducted online on 02.12.2024

Overall, the Data Science for Engineers workshop provided 90 hours of interactive learning that balanced theoretical understanding with hands-on experience. Participants left with a robust foundation in data science, equipped to apply data handling, visualization, feature selection, and model building techniques in their respective fields. Feedback from attendees highlighted the workshop’s structured approach and practical applications, which offered a clear path to mastering essential data science skills for engineering applications.

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Organized by

Department of Chemical Engineering

CERTIFICATE

OF COMPLETION

This certificate is presented to

Student Name

*from **Chaitanya Bharathi Institute of Technology, Hyderabad***

*has participated in Eight-week Online Training Program on **DATA SCIENCE FOR ENGINEERS,** from 7th Oct to 2nd Dec 2023, and successfully completed with A grade*

Dr Rupam Sinha	Dr BVS Praveen	Dr M Mukunda Vani	Prof. C V Narasimhulu
Coordinator	***Coordinator***	***Convener***	***Principal***

A= 90 % and above B = 80 - 89 % C = 70 - 79 % D = 60 - 69 %

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13	Ch. Ashritha	Chaitanya Bharathi Institute of Technology, Hyderabad
14	D Meghana	Chaitanya Bharathi Institute of Technology, Hyderabad
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17	G Harshavardhini	Chaitanya Bharathi Institute of Technology, Hyderabad
18	G. Jashwanth	Chaitanya Bharathi Institute of Technology, Hyderabad
19	Harini Byri	Chaitanya Bharathi Institute of Technology, Hyderabad
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49	Armaan Shaik	Chaitanya Bharathi Institute of Technology, Hyderabad
50	M.Praneeth	Chaitanya Bharathi Institute of Technology, Hyderabad

CHAITANYA BHARATHI
INSTITUTE OF TECHNOLOGY (A)

Date: 02-11-2023

CIRCULAR

This is to inform all the MBA I Sem students (Sec-A & B) that the Industrial Visit to Hindustan Coca-Cola Beverages Pvt. Ltd (HCCB), Miyapur is scheduled tomorrow i.e. 3rd Nov 2023 at 9.15 am to get an exposure to the industry and acquire practical knowledge. All the students are informed to attend the same.

All the students are informed to assemble in your respective class room by 9.00 am, faculty incharges will take you to the bus bay to board the bus. Buses starts exactly from the campus at 9.15 am. Expected time of return is 2.00 pm, classes will run as per the time table. Attendance will be taken while boarding bus and the same will be considered to post in the subjects as per schedule.

Students are informed to carry your lunch box and water bottle. Keep all your belongings safe.

Instructions to Students:

1. Wear College ID Card
2. Wear Formal dress & Shoe (Mandatory)
3. All students shall adhere to the instructions of the Company Personnel during Industry Visit.

Assessment will be done after Industry Visit and the performance will be recorded and considered.

Sec-A Sec-B

HEAD, SMS

Circulation to:

- MBA I Sem Students (Section A & B)
- MBA Faculty (for Information)

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STUDENT INDUSTRIAL VISITS/ALUMNI MEET

- Dr S Saraswathi, HOD, CBIT-SMS organized an Industrial Visit to Hindustan Coca Cola Beverages Pvt. Ltd (HCCB) Miyapur on 3rd Nov 2023. A total of 111 MBA First Year Students were accompanied by Dr S Saraswathi (organizer of the Industrial Visit), Dr.Varaprasad Goud, Dr.Rakhee Mairal, and Mr.VBK Rao.

MBA CBIT students on an insightful industry visit to Hindustan Coca Cola Beverages Pvt Ltd, Miyapur

DECCAN NEWS SERVICE
HYDERABAD

MBA I semester students embarked on an enlightening industry visit to Hindustan Coca Cola Beverages Pvt Ltd in Miyapur on 3rd Nov. Dr.S.Saraswathi, Head, SMS by coordinating with the company and accompanying faculty members Dr.Varaprasad Goud, Dr.Rakhee Mairal, and Mr.VBK Rao, she facilitated an enriching platform for students to bridge the gap between classroom knowledge and real-world application. A group of 111 MBA students, along with four accompanying faculty members, were welcomed by the company's manager, who provided a comprehensive overview of the company's products and production processes. The visit proved to be a valuable learning experience for the students, offering them first-hand insights into the products and operations of a prominent player in the beverage industry. It was an enriching opportunity for the students to bridge the gap between classroom knowledge and real-world application. Dr.S.Saraswathi on behalf of CBIT expressed her gratitude to the Company authorities for the warm welcome and valuable insights during industry visit.

Dr S Saraswathi, HOD, CBIT-SMS, Faculty Members and students during Industrial Visit.

Department of EEE, CBIT

Short Term Course (STC) on AI using MATLAB

30th September to 25th November 2023 (only on Saturdays and Sundays)

Course Content

- Hands-on MATLAB SIMULINK/Programming
- Implementation complex codes for mathematical operations.
- Formulating Electrical operations in MATLAB environment
- Basics of Machine Learning
- Application of Machine Learning in Electrical Engineering Applications

E-Certificate will be provided through email only.

Organizing Committee

Chairperson

Prof. C. V. Narasimhulu
Principal, CBIT

Convener

Dr. M. Balasubbareddy
Professor & HOD/EEE

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Department of Electrical and Electronics Engineering

TM

Short Term Course (STC) on AI using MATLAB

30th September to 25th November 2023 (only on Saturdays and Sundays)

Chaitanya Bharathi Institute of Technology
(Autonomous under UGC)
Affiliated to Osmania University
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Chaitanya Bharathi Institute of Technology (CBIT)

CBIT is one of the premier Engineering Institutes in India, pioneer in Telangana State, which is at idyllic surroundings of Gandipet Lake, Hyderabad. The college offers Twelve UG and Ten PG programs. It has been standing as a temple of knowledge for the past 45 years by producing about 30,000 Eminent and skillful Graduate Engineers, who are successful in their Careers, serving all over the Globe. CBIT Students are prepared and perfected to secure Placements in reputed MNCs. The Institute has been accredited by NAAC – UGC with 'A++' Grade and various programs are accredited by NBA – AICTE. The UGC has granted Autonomous Status from the Academic Year 2013-14 onwards. Stringent Academic Standards, Industry Compliant Teaching Methodology, Research Projects from Private and Public Sector organizations Industries in Engineering and Management and Consultancy Practice, enabled the Institute to establish its Identity in Technical Education and is ranked as one of the best amongst Private Engineering Colleges in both the Telugu Speaking States.

About Department

CBIT started the Electrical & Electronics Engineering UG program in 1994 and was accredited 5 times i.e. in the years 2004, 2008, 2013,2017 & 2021 by NBA. The intake was increased from 60 to 120 in the Academic Year 2013-14. The Department started offering a PG course in Power Systems & Power Electronics in 2006 with an intake of 18 and was accredited by NBA in the year 2016. The department has received grants worth around ₹ 1 crore from AICTE under RPS, SPARC, MODROBS, FDP, STTP, etc. The Department is offering consultancy services worth ₹ 24 lakhs in collaboration with Foreign Universities in the domain of Renewable Energy Systems. The Department is also certified by ISO 9001:2015. The Department is recognized as Research Centre in 2017 by Osmania University to carry out research for the award of a Ph.D. degree.

About Short-Term Course (STC)

Artificial intelligence, often abbreviated as AI, emulates intelligent human behavior through computer systems. These systems are engineered to perceive their surroundings, comprehend various actions and responses, and execute tasks autonomously. Take self-driving cars as an example: they incorporate AI algorithms like machine learning and deep learning within intricate settings to achieve automation.

MATLAB can significantly reduce data preprocessing time using apps and data types, regardless of whether you're working with time-series sensor data, images, or text. MATLAB's high-level functions streamline tasks like synchronizing disparate time series, replacing outliers with interpolated values, filtering noisy signals, splitting raw text into words, and more. Additionally, MATLAB enables quick data visualization to spot trends and identify data quality issues through plots and the Live Editor.

MATLAB apps also automate the process of ground-truth labeling for image, video, and audio data. Furthermore, when you need to test algorithms before obtaining actual sensor or equipment data, you can create synthetic data using Simulink. This method is commonly employed in automated driving systems like adaptive cruise control, lane-keeping assist, and automatic emergency braking

Resource Persons

Dr. M. Balasubbareddy
Dr. K. Krishna Veni
Dr. T. Sudhakar Babu

EEE department Front View

R&E Hub Top View

Registration Link:

https://forms.gle/xYzuz1nVPrhb5tJt7

Last date for the registration is 29/09/2023.

CBIT,

27/09/2023.

To,

The principal,

CBIT (A), Hyderabad.

Sub: Req.-Approval-STC- Organizing by EEE- Regd.

Through-Proper-Channel

Respected Sir,

It is proposed to organize a Sort-Term Course (STC) on **"AI using MATLAB"**, by the Department of Electrical And Electronics Engineering in CBIT, during **30th September to 25th November 2023 (only on Saturdays and Sundays).**

Though this course on emerging tool focuses mainly the students of EEE, the interested students from other departments are also invited to register this course.

We request you permit us to conduct this course, sir. We also request you forward the same to W&BC to upload onto the website.

Thanking you sir,

Yours sincerely,

Dr. N Venkataphanendrababu,

Coordinator-STC,

Assistant Professor,

EEE, CBIT (A), Hyderabad.

Forwarded
M. [illegible]
27/9/23

C.V.S

Forwarded
Will be Considered as Internship — [illegible] 29/9/23

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No.1076/CBIT/AEC/IC/2023

Dt.27.09.2023

CIRCULAR

It is proposed to organize a Sort-Term Course (STC) on "**AI using MATLAB**", by the Department of Electrical And Electronics Engineering in CBIT, during **30th September to 25th November 2023 (only on Saturdays and Sundays).**

All the interested Faculty and Students are directed to attend the event without detrimental to the class work and other important works. Attendance will be recorded for those who attend the event.

Brochure:
https://drive.google.com/file/d/1ciV-hoCR5OgGWI99ksixt7rn1M4t1t-s/view?usp=sharing

Registration:

For any further information contact the program Coordinators of the event, Dr. M Balasubbareddy, Professor & Head, Dr. N Venkataphanendrababu, Assistant Professor, and Dr. P. Vijay Babu, Assistant Professor, EEED, Mobile: 7052306434/8096909995.

PRINCIPAL

To
All the Advisors, Directors, Associate & Assistant Directors, Heads of the Departments, In-charges of Sections, Librarian, CoE, Head-HR, Asst. PD & PRO, for information and advised to circulate among all the staff and students under their control.

AI using MATLAB

Instruction	45 Hours per week
Duration of Semester End Examination	90 Hours
Credits	1

Course Objectives:
1. To acquire skills in MATLAB coding
2. To acquire the knowledge of Machine learning algorithms
3. To learn the intelligent approaches for the field of electrical engineering

Course Outcomes: After completion of the subject, students will be able to:
1. Understand the coding in MATLAB environment.
2. Write complex codes for mathematical operations.
3. Formulate Electrical operations in MATLAB environment
4. Demonstrate the concept of Machine Learning
5. Apply machine learning algorithms for Electrical Engineering field.

Module-I:
Basics: MATLAB environment, variables, Basic data types, Relational and Logic operators, Conditional statements, Input and Output, Loops and bracing.

Module -II:
Matrices: Creating and Manipulating matrices, Matrix mathematics and Matrix functions, 3–dimensional arrays, Cell arrays, Structures.

Module -III:
Plotting and M –file Scripts: Plotting: 2-D and 3-D plots: Basic plots, subplots, Histograms, Bar graphs, Pie charts, Creating saving and running an M–file, creating and running of a function, function definition line, H1 and help text lines, Function body, Sub – functions.

Module -IV:
Introduction to Machine Learning: Introduction, Supervised and Unsupervised learning algorithms, Implementation of Machine Learning techniques.

Module-V:
Applications to Basic Electrical Circuit Analysis: Analysis of electrical networks-solution of series-parallel circuits, solution of mesh and nodal analysis, Network theorems-validation of Maximum power transfer theorem and verification of super position theorem, solution of linear differential equations-solution of First-Order differential equation.

Text Books:

1. Saadat, H., & Electrical Engineering Series. (1993). *Computational aids in control systems using MATLAB* (p. 141). McGraw-Hill.
2. Deisenroth, Marc Peter, A. Aldo Faisal, and Cheng Soon Ong. "*Mathematics for machine learning"*. Cambridge University Press, 2020.

Suggested Reading:

1. Houpis, C. H., & Sheldon, S. N. (2013). *Linear Control System Analysis and Design with MATLAB®*. CRC Press.
2. Ciaburro, G. (2017). *MATLAB for machine learning*. Packt Publishing Ltd.

Report

Objective

The workshop titled "AI Using MATLAB" was designed to introduce participants to the fundamental concepts of MATLAB and its applications in artificial intelligence and related domains. The sessions aimed to equip attendees with hands-on experience in MATLAB, exploring topics ranging from basic programming to advanced applications in machine learning and electrical circuit analysis.

Agenda and Topics Covered

1. Basics of MATLAB

- Introduction to MATLAB interface and environment.
- Overview of MATLAB syntax and commands.
- Basic mathematical operations and matrix manipulations.
- File management and workspace handling.

2. Plotting and M-file Scripts

- Understanding 2D and 3D plotting in MATLAB.
- Creating and customizing plots for data visualization.
- Writing and executing M-file scripts for repetitive tasks.
- Debugging and structuring MATLAB code.

3. Introduction to Machine Learning

- Overview of machine learning concepts and its significance in AI.
- MATLAB’s Machine Learning Toolbox.
- Implementing basic supervised and unsupervised learning algorithms.
- Hands-on exercises with data preprocessing, model training, and evaluation.

4. Applications to Basic Electrical Circuit Analysis

- Using MATLAB for solving electrical circuit problems.
- Simulation and analysis of circuit parameters.
- Visualization of voltage, current, and impedance characteristics.
- Real-world examples demonstrating MATLAB’s utility in electrical engineering.

Workshop Highlights

- **Interactive Sessions:** The workshop included engaging lectures and live demonstrations to enhance learning.
- **Hands-On Activities:** Participants were provided with practical exercises and datasets to implement the concepts covered.
- **Q&A and Troubleshooting:** Dedicated sessions for addressing queries and discussing real-world challenges.
- **Resource Materials:** Comprehensive notes and sample codes were shared with all attendees.

Key Takeaways

- Proficiency in basic MATLAB operations and programming.
- Ability to create visualizations and automate tasks using scripts.
- Understanding of foundational machine learning principles and their implementation.
- Application of MATLAB in analyzing and solving basic electrical circuit problems.

Feedback and Recommendations

- **Participant Feedback:** Overall, participants appreciated the clarity of explanations and the practical approach of the sessions.
- **Recommendations:** Suggestions included extending the workshop duration and covering advanced topics such as deep learning and real-time applications.

Conclusion

The "AI Using MATLAB" workshop successfully introduced participants to MATLAB and its diverse applications in AI and engineering. The sessions bridged the gap between theoretical concepts and practical implementation, empowering attendees with the skills to leverage MATLAB for various technical challenges.

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Short Term Course (STC) on

AI using MATLAB

30th September to 25th November 2023

(only on Saturdays and Sundays)

CERTIFICATE

This is to certify that Mr. / Ms. ***Appani Nithya*** of *Department of EEE* has attended an online **Short Term Course (STC)** on **AI using MATLAB** during 30th September to 25th November 2023 at **Chaitanya Bharathi Institute of Technology (A),** Hyderabad – 500 075, Telangana, India**.**

Coordinator

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