

Report on One Week Online Short Term Training Program on "IoT, Cyber Security including Blockchain Technology" 6th jan to 10th jan 2025

Title: One-Week Short Term Training Program (STTP) on IoT, Cyber Security, and Blockchain Technology

Organized By: Department of Computer Engineering and Technology (CET), Chaitanya Bharathi Institute of Technology (CBIT)

Date: 6th – 10th January 2025

About the Program: The Chaitanya Bharathi Institute of Technology (CBIT), renowned for its commitment to academic excellence and innovation, is hosting a one-week **Short Term Training Program (STTP) on IoT, Cyber Security, and Blockchain Technology**. This program aims to bridge the gap between theoretical knowledge and practical application in these cutting-edge fields. The event will provide participants with a comprehensive understanding of these technologies, enabling them to apply their learning in real-world scenarios.

Program Highlights:

- **IoT Applications:** Exploring smart connectivity for devices in industries, smart homes, and healthcare.
- **Cyber Security:** Hands-on techniques for mitigating online threats and investigating digital crimes.
- **Blockchain Technology:** Fundamentals of blockchain, writing smart contracts, and understanding decentralized ledgers.
- **Industry 4.0:** Integrating AI and IoT for smart manufacturing and process optimization.

Participants: Around 101 participants registered the event consisting of students, Faculty from different college and CBIT.

Event Schedule:

- **Day 1:** Vulnerability Assessment & Malware Analysis
- **Day 2:** Data Compliance & Cyber Security Tools
- **Day 3:** Blockchain & Solidity
- **Day 4:** Trust Solutions & Fog Computing
- **Day 5:** Applications of IoT

Objectives:

1. Equip participants with advanced knowledge of IoT, cybersecurity, and blockchain technologies.
2. Provide hands-on experience with real-world tools and practices.
3. Address industry-relevant challenges and explore future trends in technology.
4. Encourage participants to develop innovative solutions for societal and industrial needs.

Resource Persons: The program will feature sessions conducted by eminent academicians and industry experts, including:

- Sai Satish, CEO, President of AIMER Society, Indian Servers
- Dr. Dorsala Mallikarjun Reddy, Assistant Professor, Indian Institute of Technology, Sri City, Chittoor, AP, INDIA.
- Dr. S. Neelavathy Pari, Assistant Professor(Sr.Gr.), Department of Computer Technology, Anna University.
- Dr. A. Chamundeswari, Professor, CSE, Saveetha Engineering College.
- Prof. E Suresh Babu, Assistant Professor Gr-I, CSE, NITW.
- Dr E Lakshmi Lydia, Professor, VR Siddartha Engineering College deemed-to-be university.
- Dr. Suresh Kallam, Professor & Program Head of IoT, JAIN (Deemed-to-be University).
- Dr. Abhishek Hazra, Assistant Professor, CSE, IIIT, AP.

This STTP provides an excellent platform for learners and professionals to enhance their skills and stay updated with technological advancements.

Event Closure:

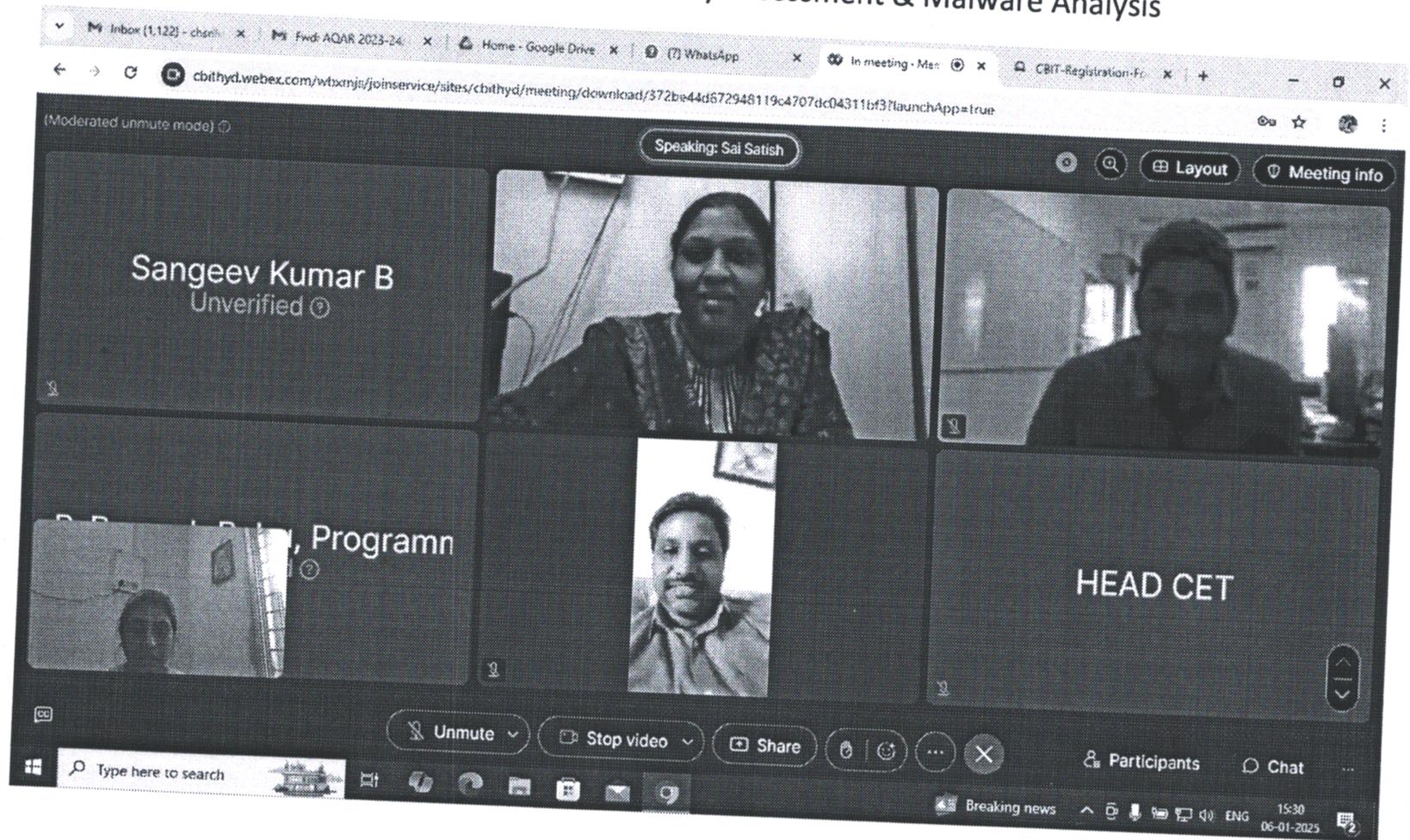
The department of CET (CSE with CYBER SECURITY and IOT including BCT) organized One Week Online Short Term Training Program on "IoT, Cyber Security including Blockchain Technology" during 6th Jan to 10th Jan 2025. The Inaugural of the STTP began with welcoming all the dignitaries and delegates. The event began with the address of Principal, Chaitanya Bharathi Institute of Technology, Prof.C.V. Narasimhulu, who emphasized on the significance of having foundational and advanced knowledge in the emerging domains of IoT, Cybersecurity, and Blockchain. He also emphasized on the necessity to attend all the sessions to gain better awareness about the aforementioned technologies.

The Head of the department, Prof.Sangeeta Gupta welcomed all the participants and gave an overview about the department, significance of the event. One of the Coordinators, Dr.Jaya Rao, spoke about the objectives and outcomes of the STTP. Nearly 101 participants have registered for the event from various Institutions all over the country. The Chief Guest for the Programme, Mr. Sai Satish, CEO, President of AIMER Society, Indian Servers drove the participants to Identify and exploit system weaknesses to improve security and to examine malicious software and mitigate threats. Industry experts and Academicians and from NITs and Premier Organizations shared their expertise and insights during the STTP.

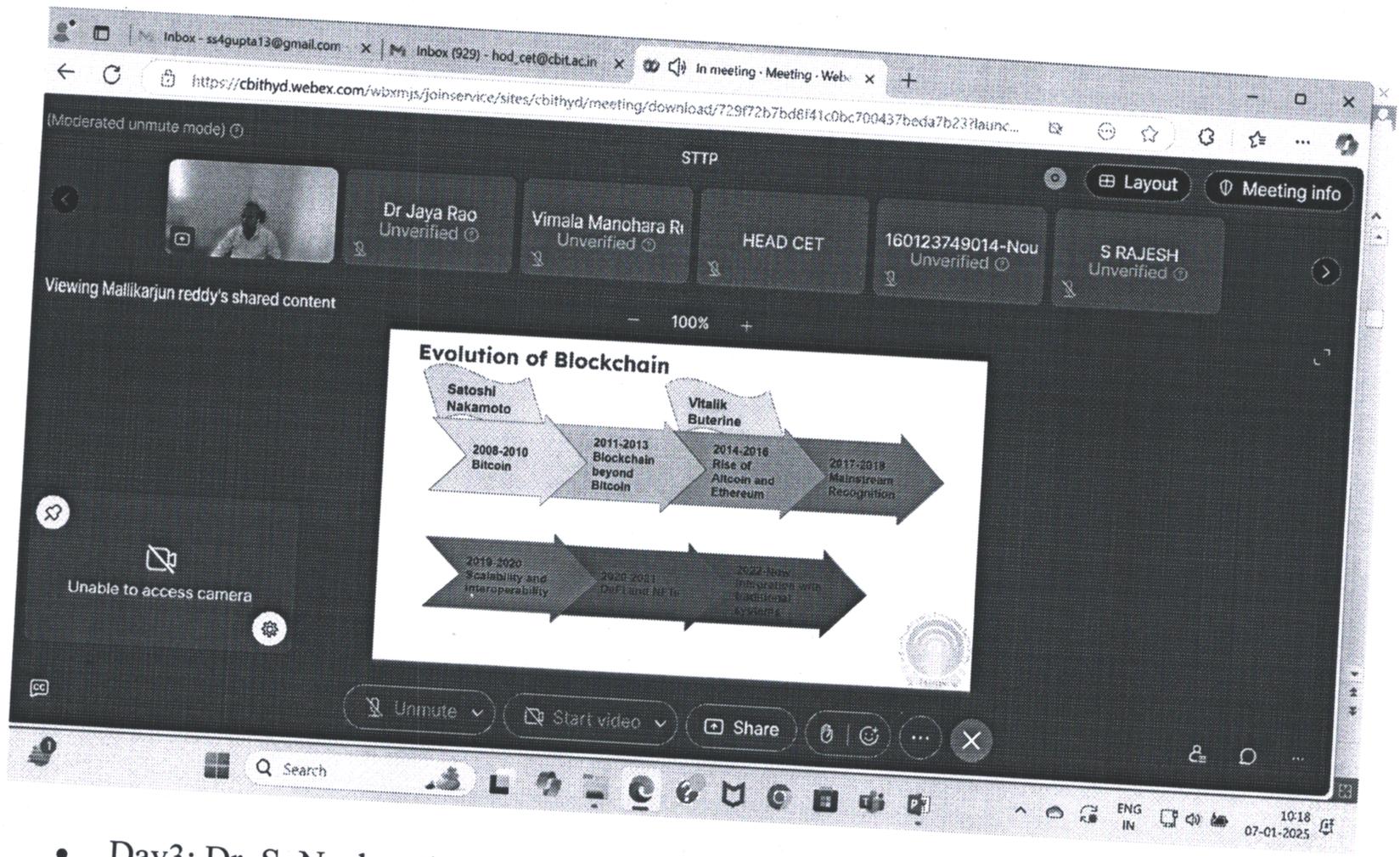

Head of the Department
Dept. of Computer Engineering and Technology.
CBIT (A), Gandipet, Hyderabad-500 075.



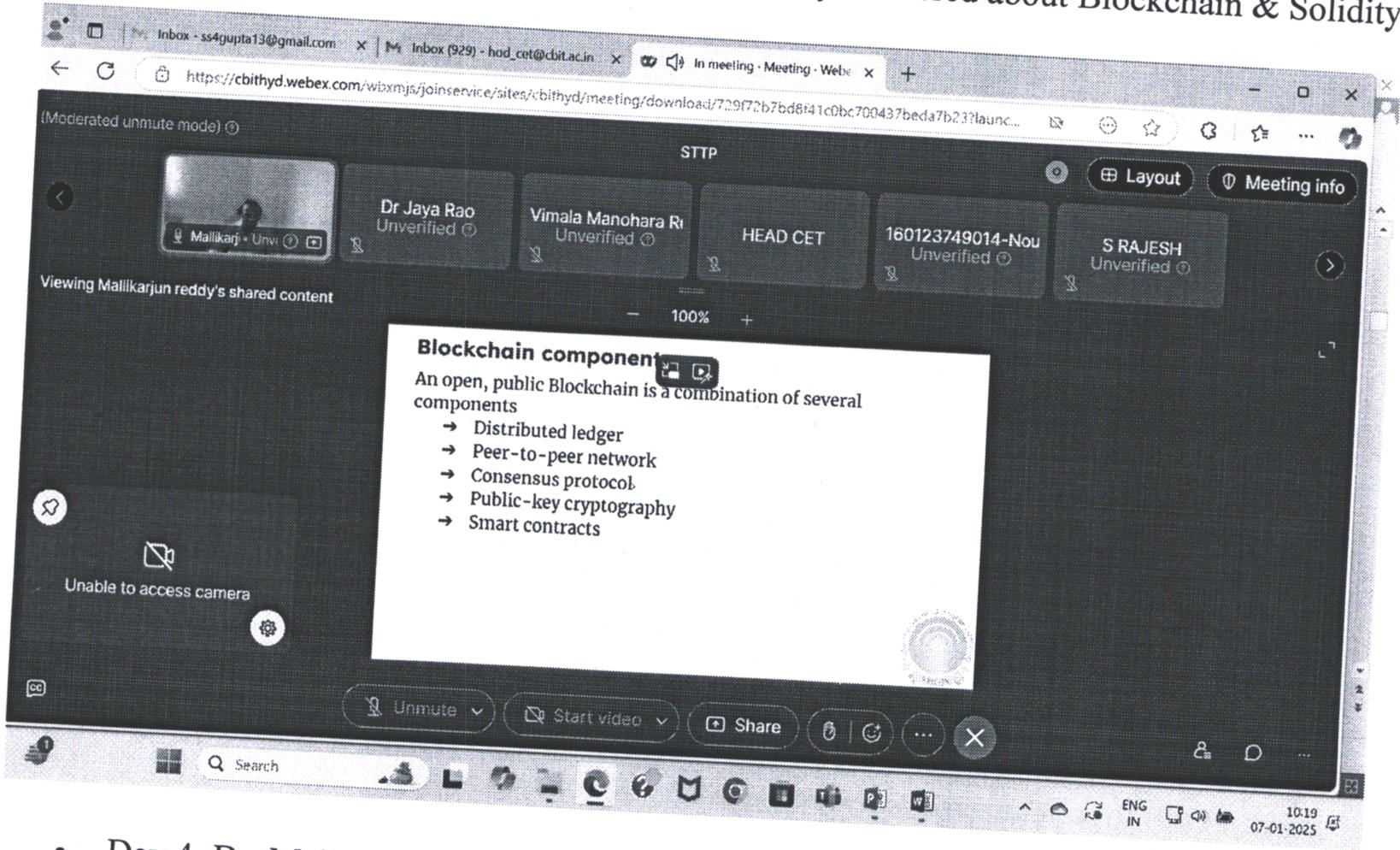
Day1: Sat Satish discussing about Vulnerability Assessment & Malware Analysis



- Day2: Dr. A. Chamundeswari, Saveetha Engineering College delivering about Data Compliance & Cyber Security Tools



- Day3: Dr. S. Neelavathy Pari, Anna University delivered about Blockchain & Solidity



- Day 4: Dr. Mallikarjun Reddy, IIIT, AP discussed about

STTP

Layout Meeting info

Dr Jaya Rao Unverified

Vimala Manohara Ri Unverified

HEAD CET

160123749014-Nou Unverified

S RAJESH Unverified

Viewing Mallikarjun reddy's shared content

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Ledger

A ledger is a crucial tool used in accounting and bookkeeping to record and organise financial and non-financial transactions. The fundamental principle behind a ledger's functioning is the double-entry bookkeeping system. In double entry bookkeeping every transaction is recorded in at least two accounts - a debit and a credit. For example, when you send money to a friend, there will a debit transaction in your account and there will a credit transaction in your friend's account.

GENERAL LEDGER

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STTP

Layout Meeting info

Dr Jaya Rao Unverified

Vimala Manohara Ri Unverified

HEAD CET

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S RAJESH Unverified

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Properties of a ledger

Chronological order
 → Transactions are recorded in the order they occur, creating a timeline of financial or non-financial activities.

Integrity
 → Difficult to change the data entered in the ledger.

Security
 → Ledgers are maintained by trusted entities and therefore trusted.

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Day 5: Prof. E. Suresh Babu, NIT Warangal discusses about Applications of IoT

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 [Inbox \(929\) - hod_cet@cbiit.ac.in](mailto:hod_cet@cbiit.ac.in) |
 In meeting - Meeting - Webex

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STTP

Layout Meeting info

Dr. Jaya Rao Unverified
 Vimala Manohara R Unverified
 HEAD CET
 160123749014-Nou Unverified
 S RAJESH Unverified

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Examples of P2P systems
 BitTorrent
 Skype (initial version)
 Napster
 eMule
 Tor
 Bitcoin
 Ethereum
 IPFS

Blockchains / Web3

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STTP

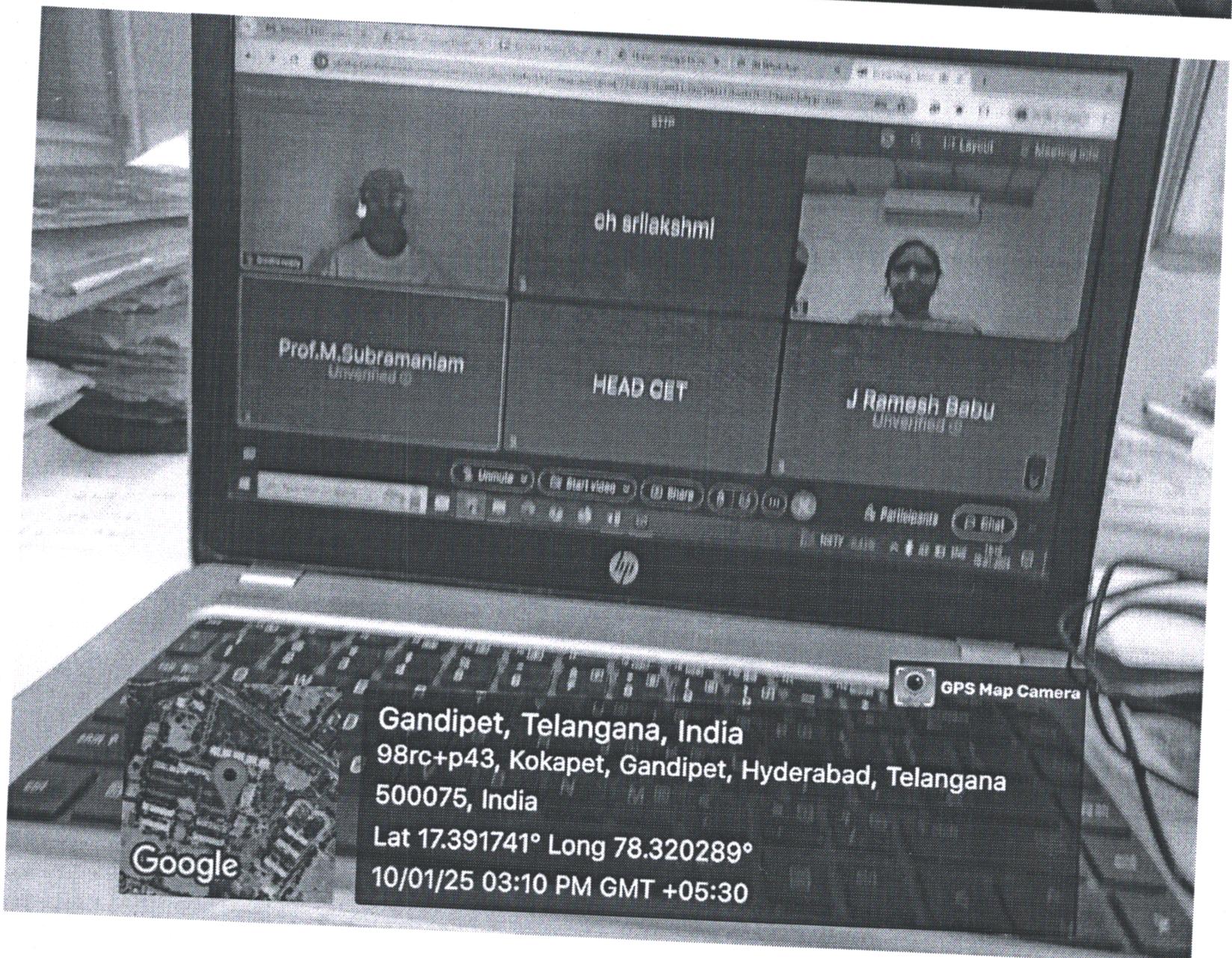
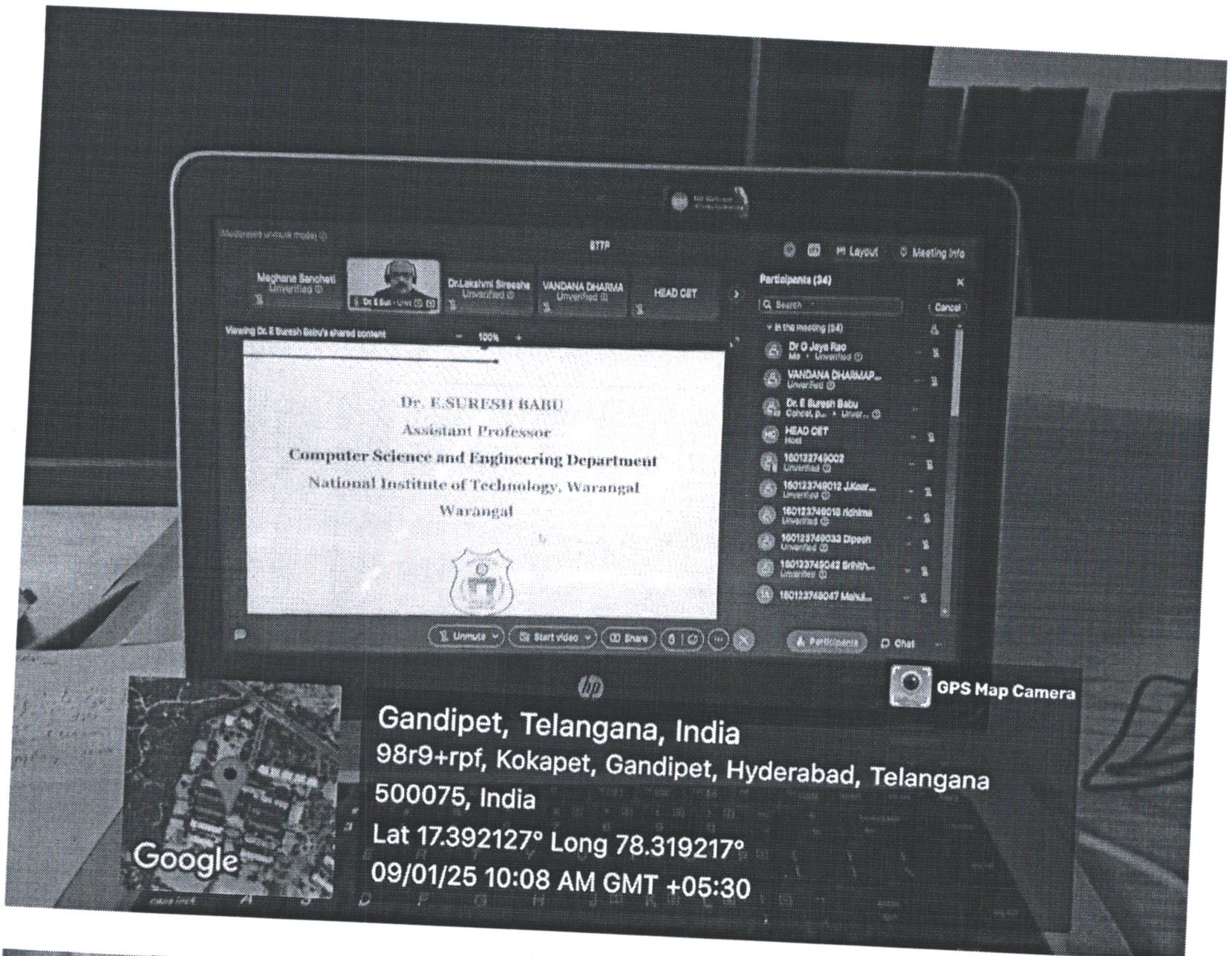
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P. Ramesh Babu, Pr Unverified
 160123749050-NJK Unverified
 Deepthi Unverified
 HEAD CET

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Participants Chat

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

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 45 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 STTP

This Short-Term Training Program aims to equip participants with both foundational and advanced knowledge in IoT, Cybersecurity, and Blockchain. It focuses on blending theoretical concepts with practical skills, enabling attendees to effectively understand, apply, and teach these technologies. The program is tailored to address the dynamic advancements in these fields, preparing participants to navigate their complexities and leverage their potential in academic and professional settings.

Objectives of the STTP

- Cyber Security: Protect systems from online threats
- Malware Analysis: Investigate digital crimes and evidence.
- Blockchain Basics: Learn decentralized and secure ledgers. Use in supply chain, finance, and voting.
- IoT Applications: Connect devices for smart homes, health, and industry
- Industry 4.0: Combine IoT and AI for smart manufacturing.

Outcomes of the STTP

- Learn threat defense, evidence analysis, and legal compliance.
- Grasp basics, smart contracts, and industry use cases.
- Design IoT solutions, explore real-world use, and solve connectivity challenges.
- Develop smart systems using IoT and AI for process optimization.



Department of Computer Engineering & Technology

organizes

One Week Short Term Training Program (STTP)
on

**IoT, Cyber Security including
Blockchain Technology**

from

6th - 10th Jan 2025

College Address:

Chaitanya Bharathi Institute of Technology,
Gandipet, Hyderabad, TS, India, PIN: 500075

CHIEF PATRON

Sri. N. Subash, President, CBIT(A)

PATRON

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

COORDINATORS

Dr. Sangeeta Gupta, Professor & Head, CET Dept.
Dr. M. Subramaniam, Professor, CET Dept.
Dr. G. Jaya Rao, Assistant Professor, CET Dept.

CO-COORDINATORS

Smt. Kavita Agarwal, Assistant Professor, CET Dept.
Mrs. CH. Srilakshmi, Assistant Professor, CET Dept.

ADVISORY COMMITTEE

Prof. P.V.R. Ravindra Reddy, Vice Principal, Administration
Prof. K. Krishnaveni, Vice Principal, Academics
Prof. P. Ravinder Reddy, Director & Head of R&E
Prof. N. V. Koteswara Rao, Director-IQAC
Prof. Suresh Pabboju, Director- AEC & CoE
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Prof. B. Linga Reddy, Director - Students Affairs & Progression
Prof. D. Krishna Reddy, Director - R & D
Prof. U.K. Chaudhury, Director - Innovation & Incubation

ORGANISING COMMITTEE

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Mrs. P. Vimala M. Ruth, Assistant Professor, CET Dept.
Mrs. G. Mamatha Reddy, Assistant Professor, CET Dept.
Mrs. N. Sujata Gupta, Assistant Professor, CET Dept.
Mr. Manish Kumar, Assistant Professor, CET Dept.
Mr. S. Rajesh, Computer Operator, CET
Mr. Syed Althaf, Computer Operator, CET
Mrs. Shabana Administrative Executive, CET Dept.

STUDENT COORDINATORS

Mehul Agarwal, II year, CET
Dipesh Dubey, II year, CET
M. Srinath, II year, CET

STTP OUTLINE

Day-1: (Vulnerability Assessment & Malware Analysis)
Identify and exploit system weaknesses to improve security. Examine malicious software to understand and mitigate threats. Investigate digital evidence to solve cybercrimes.

Day-2: (Data Compliance & Cyber Security Tools)
Enforce policies for secure data access and storage. Use software to detect and prevent cyber threats.

Day-3: (Blockchain & Solidity)
Learn foundational cryptography for blockchain security. Practice writing smart contracts on Ethereum.

Day-4: (Trust Solutions & Fog computing)
Build secure and reliable systems for smart industries. Explore challenges and advancements in edge computing for IoT

Day-5: (Application on IoT)
Connect devices globally for smarter living and efficiency. Enhance self-driving cars with IoT connectivity for navigation and safety. Transform IoT with AI to create adaptive, intelligent systems.

RESOURCE PERSONS

- Sai Satish, CEO, President of AIMER Society, Indian Servers.
- Dr. A. Chamundeswari, Professor, CSE, Saveetha Engineering College
- Dr. S. Neelavathy Pari, Assistant Professor (Sr.Gr.), Department of Computer Technology, Anna University
- Dr. Mallikarjun Reddy, Assistant Professor, CSE, IIT, AP
- Prof. E. Suresh Babu, Assistant Professor Gr-I, CSE, NITW
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Who can attend?
Faculty, Research Scholars, UG & PG Students, and Industry Professionals.

Registration Fee:

- Rs. 200 for Faculty
- Rs. 100 for Research Scholars, UG & PG Students
- Rs. 500 For others
- Free for CBIT Faculty

For Online Registration:

<https://forms.gle/GU3PaRwo7wc5uNe17>



Last Date for Registration: 04-01-2025

For Registration & Other Details, Contact:

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