

## About CBIT

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 Computer Engineering & Technology Department

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 capacity 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.

## About the STTP

This Short Term Training Program (STTP) is tailored to provide participants with advanced strategies for mitigating cyber attacks and identifying threats, featuring practical techniques that can be readily applied in their professional settings. Emphasizing the critical need for swift detection and response in today's digital landscape, the program combines theoretical knowledge with practical application. Attendees will learn to enhance their defenses against a wide array of cyber threats, ensuring they are equipped to protect and secure their organizations effectively against the evolving landscape of cyber vulnerabilities.

### Who can attend the STTP?

- Security professionals aiming to enhance their technical cybersecurity knowledge.
- Newcomers with a background in information systems and networking.
- Computer Science Engineering (CSE) students and those in similar fields.

### Objectives of the STTP

- Acquire a comprehensive understanding of the critical domains within cybersecurity.
- Learn to develop a security framework that is anchored in detection, response, and prevention.
- Investigate actionable insights and methodologies for resolving high-impact security issues.
- Steer towards implementing effective security measures and solutions within your organization.

### Outcomes of the STTP

Upon completing the STTP, participants will:

- Understand how to update defense strategies in response to evolving cyber threats.
- Learn effective defenses against ransomware.
- Implement network architectures that enhance security, including VLANs, NAC, and IEEE 802.1X, guided by advanced threat indicators.
- Master Identity and Access Management (IAM) with a focus on Multi-Factor Authentication (MFA).
- Navigate the strengths and offerings of leading cloud providers (AWS, Azure, and Google Cloud) for optimal multi-cloud strategies.



## Chaitanya Bharathi Institute of Technology (Autonomous Institute)

### Department of Computer Engineering and Technology

Organizes

### International Level One Week Short Term Training Program (online)

on

### Comprehensive Cybersecurity and Ethical Hacking from Fundamentals to Advanced Techniques

4<sup>th</sup> - 9<sup>th</sup> March, 2024

between 6.30 P.M to 8.30 P.M

In Association With



॥ क्षणे क्षणे यन्त्रवतामुपैतत 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 Scholar/ Students/ Industry People

## 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

## Coordinator

Dr. S. Kranthi Kumar

Associate Professor, Dept. of CET, CBIT

## Co-Coordinators

Prof. N. Ramadevi

Professor, Dept. of CET, CBIT

Mrs. G Mamatha

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. G. Jaya Rao, Assistant Professor

Mrs. Kavita Agarwal, Assistant Professor

Mr. P. Narsimhulu, 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.

## CET Student Coordinators

Ms. Kavya Sri Yakkala

Ms. Shrina Tyarla

Ms. B. Jyothi Samjyotha

Ms. Mudimala Sanjana Reddy

Mr. B. Kartikender Reddy

Mr. Kosuri Sasidhar

Mr. Simhadri Adhit

Mr. Vangapally Namish

Mr. Aditya Raj Bhosle

Mr. Garlapati Ritesh

## Keynote Speaker

Dr. V Sunkari, Professor, SiTE, AAiT, Addis Ababa University, Ethiopia

## Resource Person

Ajinkya Lohakare, CTO and Founder of Ditto Security. CEH, CHFI, LPT, Penetration Tester, BUG BOUNTY Hacker. Josh talk and Tedx Speaker, Ethical Hacker

## Program Outline

### Day 1: Footprinting and Reconnaissance

- Introduction to Footprinting and Reconnaissance Techniques
- Domain and Network Information Gathering: NSLOOKUP, WHOIS
- Advanced Search Techniques: SHODAN and Other Search Engines
- Specialized Reconnaissance Tools: MALTEGO, HTRACK, The Harvester
- Integrating Recon-NG and Social Engineering for Comprehensive Reconnaissance

### Day 2 and 3: Penetration Testing and Ethical Hacking

- Foundations of Ethical Hacking and Introduction
- Network Reconnaissance: Scanning, Enumeration, and Sniffing
- Attacking Techniques: System Hacking, Malware, Social Engineering, Denial of Service, and Session Hijacking
- Web Security: Server and Application Vulnerabilities, SQL Injection
- Wireless and Mobile Security: Hacking WiFi, Bluetooth, and Mobile Devices
- Defensive Strategies: Understanding and Deploying IDS, Firewalls, Honeypots, and exploring IoT, Cloud Security, and Cryptography

### Day 4 and 5 : Advanced Penetration Testing

- Deep Dive into Linux Programming for Security Professionals
- Mastery of Metasploit for Effective Penetration Testing
- Advanced Techniques in Information Gathering and Vulnerability Assessment
- Sophisticated Traffic Analysis and Capture for Network Security
- Comprehensive Exploitation Techniques, including Password Cracking and Advanced Exploits
- Strategic Post-Exploitation Tactics to Maintain Access and Gather Critical Data
- Enhancing Web Application Security through Targeted Testing
- Developing Custom Exploits for Comprehensive Security Assessments
- Utilizing Smartphone Penetration Testing Frameworks for Mobile Security

### Day 6: CTF Challenges



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## Registration Details

Registration Fee: ₹250 per participant

QR for Registration Form:



Payment Details Provided in the Form

If any queries, contact:

Mrs. G. Mamatha

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