

# 1 Week Offline

## SHORT TERM TRAINING PROGRAM (STTP)

ON

## CYBER FORENSIC TOOLS & INVESTIGATION PROCESS

Date: 27<sup>th</sup> April 2026 to 1<sup>st</sup> May 2026

Organized By **KV Rao Centre for Cyber Security & Digital Forensics**

### DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

In Association with Engineering Staff College of India (ESCI), Hyderabad



#### Convener :

**Dr. D. Rajeswara Rao**  
Prof. & HoD-CSE,  
Dean (IRP)

#### Coordinator :

**Dr. Mohammed Ismail B**  
Prof. & Dean Academics

#### Co-Coordinator:

**Dr. Shaik Khaja Mohiddin**  
Assoc. Professor

**Dr. K. Chandrakala**  
Asst. Professor (SG)

#### Organising Committee:

**Dr. P. Dhanavanthini**  
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#### For Payment



#### Registration link:



#### About the University:

In 2024, V. R. Siddhartha Engineering College was declared as an Institution Deemed to be university under Section 3 of the UGC Act, 1956 by Ministry of Education, Government of India. With a legacy of educational excellence, the institution's UGC-granted autonomy, renewed through 2027-28, provides a strong foundation for its transformation. Guided by a detailed 15-year strategic vision and a 5-year rolling implementation plan, Siddhartha Academy of Higher Education focuses on key areas such as academics, research, ICT infrastructure, and administration, with specific annual milestones and measurable outcomes. SAGTE, as a responsive educational trust, aligns with the Government of India's target of achieving a 50% GER in higher education by 2035. Siddhartha Academy of Higher Education, Deemed to be University, offers diverse undergraduate and postgraduate programs through its specialized schools, including the School of Engineering (B.Tech., M.Tech.), School of Management (MBA), School of Law, School of Science (B.Sc., M.C.A.), and School of Arts & Commerce (B.Com.). Envisioned to support interdisciplinary and multidisciplinary education for students' holistic development, the university aligns with the aspirations and requirements of NEP 2020 to equip students with the skills and knowledge essential for future growth and societal contributions.

#### About CSE Department:

The Department of Computer Science and Engineering (CSE), established in 1985, has grown into a center of excellence in education, research, and innovation. The department offers B.Tech programs in CSE, AI & DS, and AI & ML, along with M.Tech in Cyber Security and Ph.D. programs. With a strong focus on research, R&D, industry collaboration, internships, and placements, the department is committed to developing future-ready professionals equipped to meet emerging technological challenges.

#### About KV Rao Centre :

KV Rao Centre for Cyber Security and Digital Forensics is a specialized facility dedicated to cyber security training, digital investigation, and forensic analysis. The center supports activities in computer forensics, disk forensics, mobile forensics, and Security Operations Center (SOC) practices. It is equipped with industry-standard tools and platforms for hands-on learning and practical investigation. The center utilizes MSAB XRY and XAMN for advanced mobile device forensics and evidence analysis. For disk and computer forensic investigation, professional tools such as FTK are used for acquisition, recovery, and analysis of digital evidence. It also enables web application security testing using tools like Burp Suite. For vulnerability assessment and cyber risk analysis, the center employs platforms such as Qualys. The center serves as a hub for training, research, cyber awareness, and practical exposure in digital forensics and cyber security.

#### About ESCI :

The Engineering Staff College of India (ESCI), established in 1981 as an autonomous organ of The Institution of Engineers (India), is a premier institution dedicated to training, education, and professional development in engineering and techno-management. ESCI is widely recognized for conducting high-quality faculty development programmes, technical training programmes, workshops, and skill development initiatives across emerging domains. With its strong focus on industry relevance, interdisciplinary learning, and continuous professional development, ESCI plays a vital role in enhancing the knowledge and competencies of academicians, researchers, engineers, and professionals.

#### About STTP :

The Short-Term Training Program (STTP) on Cyber Forensic Tools and Investigation Process is designed to provide participants with foundational and practical knowledge in cyber forensics, digital evidence handling, and cybercrime investigation. The program focuses on the identification, acquisition, preservation, analysis, and presentation of digital evidence using standard forensic procedures and tools. It aims to bridge the gap between theoretical concepts and real-world forensic practices through exposure to investigation techniques, forensic utilities, and cyber law aspects.

#### Objectives of STTP :

- To provide participants with fundamental and advanced knowledge of cyber forensics, digital evidence handling, and cyber investigation processes.
- To develop understanding of digital evidence acquisition, preservation, duplication, recovery, and forensic analysis of hard disks, file systems, operating systems, logs, and host artifacts.
- To familiarize participants with the investigation of emails, web attacks, network traffic, wireless incidents, and mobile devices using commonly used forensic and cybersecurity tools.
- To enhance awareness of cyber threats, system vulnerabilities, investigative strategies, and the legal, ethical, and procedural aspects of cybercrime investigation and evidence presentation.

#### Day-wise Schedule:

**Day 1:** Cyber Security Overview, Types of Cyber Threats (Malware, Phishing, DoS, etc.), Security Threats vs Vulnerabilities, Information Gathering Techniques (Footprinting, Reconnaissance), Basics of System Security, Introduction to Windows Security, Overview of Cyber Forensics.

**Day 2:** Computer Forensics Investigation Process, Digital Evidence & First Responder Procedures, Chain of Custody, Understanding Hard Disks (Partitions, Sectors), File Systems (FAT, NTFS basics), Data Acquisition & Duplication (Imaging).

**Day 3:** Windows Forensics, Windows System Logs (Event Viewer Analysis), Registry Analysis, Host Artifact Investigation, Recovering Deleted Files, Forensic Investigation using AccessData FTK, Introduction to Autopsy.

**Day 4:** Network Security Basics, Network Forensics, Network Data Analysis, Log Capturing & Event Correlation, Port Scanning Concepts, Network Traffic Analysis, Network Monitoring & Management, Practical using Wireshark.

**Day 5:** Investigating Web & Email Attacks, Email Crime Analysis, Wireless Security & Wireless Attack Investigation, Mobile Forensics & Mobile Security (using XRY), Indian Cyber Laws: Information Technology Act 2000, IT Amendment Act 2008, Relevant IPC Sections, Integrated Cyber Forensic Investigation Workflow, Tools Overview: Autopsy, Wireshark, AccessData FTK, Python Libraries for Forensics.

#### Resource Persons:

Experts from ESCI & Industry

#### Target Audience:

Faculty, Research Scholars, Industry Professionals and Students

#### Accommodation:

First come First served on payment basis

#### Course Fee:

**4750/-** (Inc.GST + Kit + Lunch)



## SIDDHARTHA

### ACADEMY OF HIGHER EDUCATION

An Institution **DEEMED TO BE UNIVERSITY**

(Under Section 3 of UGC Act, 1956)

(Sponsored by Siddhartha Academy of General & Technical Education), Vijayawada, A.P.