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About The Programme

Digital forensics is the application of forensics to retrieve information legally from any digital device such as computers and smart phones to investigate a cybercrime. Because of increasing modern cyber-attacks, the complexity of evidence acquisition is increasing. It often requires the use of several technologies. Hence there is a need to move forward to adopt standardized, modular approaches for data representation and forensic processing. The Programme is organised to motivate teachers to enhance student engagement through interactive and collaborative learning, thus maximizing learning outcomes. The programme intends to explore the different models of learning and dive into key issues that impact students, teachers, and institutions of Higher Education. The FDP is designed around developing the foundational knowledge needed to train the teachers to address the rapidly changing educational needs and devise ways to make their teaching more learner- centric.

Programme Objectives

- To understand Cyber Crime Investigation
- To know Cyber Forensics Analysis
- To understand Cyber Treats and its detection using Intelligent Approach

Programme Outcomes

Participants will be able

- To learn about Information and Data Security
- To understand Cyber Crime & Real Time Case Studies

Topics Covered

- Introduction to Cyber Threat Intelligence
- Cyber Threat Data Collection Techniques
- Cyber Crime & Real Time Case Studies
- Cyber Crime Investigation
- Information Security Risk Assessment and Management
- Intrusion Analysis and Dissemination
- Penetration Testing
- Malware Analysis
- Memory, Network, Application, Hardware, and Cloud Forensics Tools and Techniques
- Cyber Laws and Ethics
- Adaptive Cyber Defence and Immunity



SB Code: STB55181

KBTCE

Faculty Development Programme

On

Research & Emerging Trends in Digital Forensics

11th (Mon.) July to 16th (Sat.) July 2022

Organized by

**Maratha Vidya Prasarak Samaj's
Karmaveer Adv. Baburao Ganpatrao
Thakare College of Engineering, Nashik**

Department of Computer

Engineering

(Accredited by NBA)

Sponsored by



in Association with

Sandip Foundation SITRC IEEE SB, Nashik



Coordinator

Dr. D. V. Medhane

Branch Counsellor-IEEE-MVPS's KBTCOE &
Head, Department of Computer Engineering

Co-coordinator

Ms. D. L. Tidke

Assistant Professor

Department of Computer Engineering

About MVPS's KBTCE

MVP Samaj's K.B.T. College of Engineering was established in 1999 having 11 acres area in the heart of the Nashik city at approximately 2 Kms from CBS and 12 Kms from Nashik Road Railway station. The college is Permanently Affiliated to Savitribai Phule Pune University, Pune and Approved by AICTE, New Delhi. Our institute is NAAC Accredited institute with 'A' Grade and five programs are accredited by NBA. The college is developing fast with the vision "To be internationally accredited, Multidisciplinary, and Multi-collaborative institute working on technology enabled platform fostering innovations and patents through state-of-art academic system designed by highly qualified faculty for the development of common masses at large" and the mission "To educate and train common masses through undergraduate, post graduate, research programs by inculcating the values for discipline, quality, transparency and foster career and professional development for employment thereby contributing to the development of society".

About Sandip Foundation SITRC

Sandip Institute of Technology and Research Center (SITRC), a premier engineering college in Nashik, Maharashtra, was founded in 2008 and is affiliated with Savitribai Phule University of Pune. Institute is accredited by NBA and NAAC with a Grade A. SITRC has a stimulating environment for intellectual debate and academic procedures (Teaching and Learning Process). The modern infrastructure, an exemplary set of dedicated teaching professionals, and the exhilarating atmosphere of the campus will surely take you to enviable heights in your intellectual development and help you achieve your future endeavours. To impart training, we have a team of individuals with in-depth knowledge and industrial experience in the latest technical fields.

Important Information for Participants

- The willing participants should apply through the link: <https://forms.gle/MxoEmV8U7GYDtTF57>
- Registration Fees:**
IEEE Members: Free
Non-IEEE Members: Rs. 150/-
(The registration fees do not include lunch; however paid lunch would be provided if it is requested by participant.)
- Seats are limited to 80 only and the participants will be selected based on first come first serve basis.
- Participants should have the provision of laptop/ smart phone with good quality on their own for hands-on sessions.
- Certificates will be issued to the participants only after attending the complete FDP in offline mode and successful completion of post programme assessment/test.
- No TA/DA will be paid to the participants; however paid accommodation may be provided to outside candidates provided request for the same is made in the registration form, well in advance.

IEEE

IEEE, an association dedicated to advancing innovation and technological excellence for the benefit of humanity, is the world's largest technical professional society. It is designed to serve professionals involved in all aspects of the electrical, electronic, and computing fields and related areas of science and technology that underlie modern civilization.

IEEE Region 10

IEEE Region 10 is home to organizational units in Asia and Pacific. It aims to keep the Asia Pacific region the most vibrant and active of the 10 geographical regions in the IEEE, by keeping the volunteers informed and their activities coordinated. Its core purpose is to foster technological innovation and excellence for the benefit of humanity.

IEEE Bombay Section

Aligned with the Vision and Mission of IEEE and IEEE Region10, in 1976, the Bombay Section was formed with a Territory of Maharashtra, Goa, Gujarat, which later separated to form a Section itself on 15th August 1990. The Section's major activities are led by its standing committees and affinity groups, while the technical events are taken care of very actively by its 14 chapters and societies. WIE and SIGHT groups of the section work tirelessly in pushing their high-impact activities to the beneficiary groups.

Important Dates

Last Date for Registration: 5th July 2022
Registration confirmation to participants: 7th July 2022

Contact Details

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Who can participate?

All the faculty members of higher and technical education institutes.

Schedule

Day	Topics	Resource Person
Monday 11/07/22	Session 1: Inauguration Session 2: Introduction to Cyber Threat Intelligence Session 3: Trends in Digital Forensics	External Experts
Tuesday 12/07/22	Session 1: Android App Permissions, Spy Apps Live, Safe mobile usage Session 2: Various attacks online on common person, Betting Sites/ Advertisement sites and Frauds Session 3: Hack tools introduction, Wireless / Wi-Fi Hack - Security Check Real Life examples with demo	Experts from Industry
Wednesday 13/07/22	Session 1: Cyber Threats and its detection using Intelligent Approach Session 2: Police officer's meet Session 3: Storage media forensics, Hacking in any way	Experts from Industry
Thursday 14/07/22	Session 1: Live Forensics Data Integrity, Acquisition or Clone, Build a Strong Online Profile Session 2: Data Recovery, Duplicate File Finder, Generating a Forensics Report Session 3: Identify Spy Gadgets, Fingerprint Analysis	Experts from Industry
Friday 15/07/22	Session 1: "Network forensics"- Tool. Cyber Crime & Real Time Case studies Session 2: Digital Signature and Proxy Signature in Digital forensics Session 3: Demo of forensic Live tools - like various System Tools, Network Diagnosis Tools, etc	Experts from Industry
Saturday 16/07/22	Session 1: Session on Stress Management Session 2: Test and Feedback Session 3: Valedictory function and feedback	Experts from Industry