Hands – on – Training on Cyber Security: Penetration Testing & Malware Analysis (Through Online Mode)

27 – 28, April 2020

in association with

SkillsDA®
Center for Advance Training

Teaching Learning Centre
(Under Pandit Madan Mohan Malaviya National Mission on Teachers & Teaching, Dept. of Higher Education, MHRD, GoI)

Coimbatore Institute of Technology
(Government Aided Autonomous Institution)
(Approved By AICTE, New Delhi, Affiliated to Anna University, Chennai)

▬▬ About the Course

This course is intended to provide hand-on training to the participants in the following topics.

- Generic IT Infrastructure
- Cyber Attack Vectors
- Endpoint Systems Compromise
- Preventive Measures
- Regulations and Audits

▬▬ Course Contents

Introduction
- Generic IT Infrastructure
- Introduction to cyber security
- Challenges in Implementing IT Security

Vulnerability Assessment
- Finding Vulnerabilities
- Network Vulnerability Assessment
- System Vulnerability Assessment
- Web & Mobile Application
- Vulnerability Assessment

Network Exploitation
- Network Recon
- Finding Vulnerabilities
- Exploiting
- Exploiting with Metasploit
- Privilege Escalation
- Local Privilege Escalation
- Linux Privilege Escalation

System Exploitation
- Password Hacking
- Attacking Windows & Linux Passwords
- Introduction to Memory concepts
- Understanding Software Execution
- Fuzzing
- Buffer Overflows

Web Application Exploitation
- Information Gathering
- Setting up your browser
- Essential Addons, XSS Attacks
- File Inclusions,
- SQL Injections
- File Upload Vulnerabilities,
- Web Shells

Client-Side Attacks
- Browser Exploitation
- Social Engineering Attacks
- Malwares,
- Types of malwares
- Generating Malwares using metasploit

Target Participants

- Faculty Members and Research Scholars

Course Instructor

- Professional Trainers from SkillsDa, Chennai

Participants Requirements

- A Laptop with minimum 4GB RAM & Dual Core processor for accessing virtual labs.
- Internet connection with minimum bandwidth of at least 10 Mbps.
- All participants are required to have knowledge with working in Linux OS for practising virtual labs.
- If you need to brush up Linux OS skills, please visit https://kali.training/ to download a free copy of the kali linux training pdf

Training Medium

- The training medium will be online using google classroom apps. The URLs to access the classroom shall be sent via mail.

Registration

- No Participation fee will be collected.
- Interested participants are requested to register through the following Google Form Link on or before 23rd April 2020.
  https://forms.gle/DP5TUPPR6nKkDrJBA
- Maximum number of participants is limited to 50.
- The selection of participants is based on First Come First Serve basis and Course prerequisites compliance.
- Attendance is Mandatory for all the sessions.
- Selected participants will be communication through E-Mail on 24th April, 2020.

About CIT

Coimbatore Institute of Technology (CIT), Coimbatore, is a Government Aided Autonomous Institution established in the year 1956.The Institute offers 07 Under Graduate, 10 Post Graduate and Ph.D research programmes in engineering disciplines. The Institute is approved by AICTE, New Delhi and Affiliated to Anna University, Chennai and Accredited by National Board of Accreditation (NBA), New Delhi. The National Assessment & Accreditation Council (NAAC) accredited the institute with 'A' grade level. National Institutional Ranking Framework (NIRF), MHRD, Govt. of India., has ranked CIT with 68th Place in All India Ranking among Engineering Institutions in 2019. The Institute is currently carrying out cutting edge technology research with International Collaboration in academia and industry, providing consultancy to industries in several fields of Engineering and Science.

Teaching Learning Centre

Coimbatore Institute of Technology has been approved as Teaching Learning Centre (TLC) under the scheme of Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNMTT), Department of Higher Education, Ministry of Human Resource Development (MHRD) in December, 2017. The objective of Teaching Learning Centre is to raise the Quality of Teaching through training, retraining, refresher and orientation programmes in the disciplines of Academic, Research and Management (ARM) of teachers of technical education institutions in the regions of Tamil Nadu (West), Kerala, Karnataka, Andhra Pradesh, Telangana and Puducherry.

Organizing Committee

Chief Patron	
Dr.S.R.K.Prasad	
Correspondent, CIT Institutions, Coimbatore	
Patrons	
Mr.S.Rajiv Rangasami	Dr.R.Prabhakar
Director, CIT Institutions, Coimbatore	Secretary, CIT Institutions, Coimbatore.
President	**Convener**
Dr.V.Selladurai, Principal, CIT, Coimbatore.	Dr.V.Manikandan, Project Coordinator, TLC, CIT.

Course Coordinators

Coordinator	Dr.V.Manikandan, E-Mail: tlcpc@cit.edu.in
Co-Coordinator	Ms.D.Kiruthiga, E-Mail: tlcp6@cit.edu.in