Report on Short Term Course (STC) on 'CYBER THREATS AND SECURITY MEASURES" conducted by National Institute of Technical Teachers Training & Research (NITTTR Chandigarh)

At Remote Center -IcfaiTech, The ICFAI University Jaipur

With the rapid increase in the use of information and web resources for social networking and online trading, security threats and incidents are also alarmingly growing. The vulnerabilities in the information resources and hence the hacking activities at large, victimize the novice users on the web which needs the creation of immediate awareness among the users to practice effective defense mechanisms against such activities and follow safe computing practices to contain the unprecedented growth of cyber-crimes.

In this backdrop, a Short-Term Course on 'CYBER THREATS AND SECURITY MEASURES" has been conducted by the National Institute of Technical Teachers Training & Research (NITTTR Chandigarh) during July 25– 29,2022. The IcfaiTech, The ICFAI University Jaipur was one of the Remote Center for the course.

The objective of this short-term course is to educate and enlighten the participants on various security incidents, countermeasures and best defensive practices to remain safe in the cyber world.

A total of 21 participants from the center (ICFAI University Jaipur) registered for the course and completed it successfully.

Dr. Maitreyee Dutta, Professor & Head, Dept. of IMEE

Dean of Academics, R&D, NITTTR was the Course Coordinator. Mr. Vipin Gupta, Ms. Shweta Sharma, Ms. Amanpreet Kaur, Mr. Vipul Mandhar Kumar and Mr. Vipin Kumar Rathi were the resource persons for the program. The major themes discussed in the STC were:

- ❖ Basics of Cyber Threats and Security Measures
- ❖ Setting up the Virtual Environment for Ethical Hacking
- ❖ The Art of Social Engineering
- ❖ Password Security Auditing using John-the-Ripper Tool
- ❖ Open-source Firewall Implementation
- ❖ Intrusion Detection and Prevention System
- ❖ Performing Cyber Threats using Cain & Abel Tool
- ❖ Performing Windows Malware Analysis with Open-Source Tools
- ❖ Implementing Cryptography Algorithms using Cryptool and VeraCrypt
- ❖ OWASP Top 10 Vulnerabilities
- ❖ Vulnerability Assessment and Penetration Testing
- ❖ Performing Digital Forensics with Data Carving and Registry Analyzer Tools
- ❖ Implementing Cyber Forensics using CyberCheck Suite

Glimpse of Short-Term Course