TECNIA INSTITUTE OF ADVANCED STUDIES
NAAC ACCREDITED GRADE "A" INSTITUTE
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TIAS/ACl/2021-22/37

Date:20/05/2022

Course Completion Certificate

This is to certify that the course module for the Certificate Course in Advance ethical hacking scheduled from 2/5/22 to 19/5/22 , comprising of 30 Hours, running in 2 batches deliverance has been completed by the resource person Mr. Harsh, with the module contents as under:-

S.No.	Contents Deliverance	Learning Outcomes
1	Introduction to Network Security (2 Hr)	Identify and exploit various types of vulnerabilities in computer systems, networks, and applications.
2	Advanced Web Application Security (3 Hr)	Understand and apply advanced techniques for reconnaissance, information gathering, and footprinting.
3	Advanced Exploitation Techniques (2 Hr)	Demonstrate proficiency in advanced exploitation techniques, including code injection, privilege escalation, and post-exploitation.
4	Advanced Cryptography (2 Hr)	Conduct advanced penetration testing using industry-standard methodologies and frameworks.
5	Advanced Malware Analysis and Reverse Engineering (3 Hr)	Apply advanced web application security techniques, such as bypassing security controls, exploiting authentication and authorization vulnerabilities, and understanding complex web application architectures.
6	Advanced Social Engineering (2 Hr)	Understand and mitigate wireless network security threats, including attacks against Wi-Fi networks, encryption cracking, and rogue access point detection.
7	Advanced Wireless Security (2 Hr)	Conduct reverse engineering and malware analysis to understand the behavior of malicious software and develop appropriate countermeasures.
8	Cloud Security and Virtualization (2 Hr)	Demonstrate knowledge and skills in network and infrastructure security, including firewall evasion, intrusion detection and prevention, and securing wireless networks.
9	Advanced Incident Response and Forensics (4 Hr)	Apply incident response techniques to effectively handle security incidents, identify root causes, and develop remediation strategies.
10	Red Team Operations (3 Hr)	Understand legal and ethical considerations associated with ethical hacking, including compliance with laws and regulations, obtaining proper authorization, and maintaining confidentiality and integrity of sensitive information.
11	IoT (Internet of Things) Security (3 Hr)	Use specialized tools and technologies for ethical hacking and security testing, such as Kali Linux, Metasploit, Burp Suite, and network sniffers.
12	Mobile Application Security (2 Hr)	Communicate and report findings effectively, both orally and in writing, to technical and non-technical stakeholders.

All the above contents are delivered to the best of my knowledge and belief and nothing is withheld.

Signature

Name of Faculty: Mr. Harsh

Submitted to HoD- Department of Information Communication and Technology, TIAS