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| FDP Title | Faculty Development Program on Vulnerability Assessment and Penetration Testing |
| Dates | August 5, 2019 – August 9, 2019 |
| Venue | GTU, Chandkheda Campus |
| Expert | Mr. Latish Danawale, Team Leader, Pristine InfoSolutions Pvt. Ltd., Mumbai. |

About the Program

Every day the cyber attacks are increasing with the increased use of mobile and web applications. Globally, statistics show that more than 70 per cent of the applications either have vulnerabilities which could potentially be exploited by a hacker, or worse, they have already been exploited. The data losses due to this are of two types either the data is confidential to the organisation or it is private to an individual. Regardless, data losses result in the loss of money or reputation. The main aim of Faculty Development Program to explore the knowledge in the field of cyber security specifically the Vulnerability Assessment and Penetration Testing (VAPT); this is a technical assessment process to find security bugs in a software program or a computer network.

Following topics were covered:

Introduction of VAPT, Web Scanners, Burp Suite, Web Enumeration, CMS Testing, OWASP Top 10, Web Extreme Bugs, API Testing, Source Code Auditing, Web VAPT Methodology and Reporting, Web Patch Management, Bug Bounty Hunting

Benefits of FDP:

- Helps to identify programming errors that can lead to cyber attacks
- Provides a methodical approach to risk management
- Secures IT networks from internal and external attacks
- Secures applications from business logic flaws
- Protects the organisation from loss of reputation and money

Outcomes of FDP:

At the end of the program participants will be able to

- Learn about: Routing, Forwarding, and TCP/IP; Information Gathering; Scanning; Vulnerability Assessments; Buffer Overflows; XSS; SQL Injection; System and Network Attacks; and Basics of Web App Pentesting
- Learn how to: Analyze Traffic with Wireshark, Exploit Vulnerable Hosts, Move Laterally, Manipulate Traffic, Crack Passwords, and Exfiltrate Data
- Develop Pentesting tools in C and Python
- Learn how to use tools like Nmap, Nessus, Hydra, Metasploit, and Burp Suite

FDP Photo:



Gujarat Technological University believes that faculties of all affiliated colleges will learn about VAPT and also it would be useful to develop the students programming skills with respect to security aspects.