



FDP: ETHICAL HACKING

Topic :	Faculty Development Programme on Ethical Hacking
Date of event :	February 29, 2012 – March 01,2012
Aim of the Event:	A Faculty Development Programme on Ethical Hacking was organized for the Faculty members of the institute, with the aim of introducing them to the field of IT security & Ethical Hacking. The session was taken by Mr. Sachin Kataria, Sr. Technical Head in Cyber Security with Cryzone Technologies. He wanted to enable the faculty members with expertise for securing their systems from being hacked.
Description of the Event :	<p>Mr. Kataria started the session by discussing the meaning & principles of IT security. He explained who a hacker is & also discussed in brief the difference between the black, white & grey hackers. He talked about CEH, which is a certification course for Ethical Hackers.</p> <p>He encouraged faculties to secure their desktops/ laptops from unauthorized access and discussed various prevention techniques. In this regard, faculties were firstly educated about the various threats to security. Some of them are listed below:</p> <ol style="list-style-type: none">1. Basic Threats:<ul style="list-style-type: none">▪ Password Hacking▪ Malwares▪ Email Threats▪ Email Spooling2. Online Threats:<ul style="list-style-type: none">▪ Morphing▪ Cyber Staking▪ Launch of Malicious Codes

3. Corporate threats:

- Web Defacement
- Corporate Espionage
- Launch of Malwares

Mr. Sachin Kataria, then moved on to discussing Operating System Security. He covered the following topics in this context:

- How to Enable BIOS Password.
- How to Break BIOS Password.
- How to Break Password for Windows XP.
 - Shortcut to enter a system as an Administrator
 - Using OHP Crack CD to view/ crack Windows password.
 - Using ERD commander CD for changing password.
- How to break password for any Operating System.
 - Using NT OFFLINE Track CD
- Using SYSKEY Encryption Utility
- How to disable SYSKEY Password.
- Accessing SAM file for finding all the passwords.

Faculties were then, educated about the vulnerability for Windows along with the concept of Firewall security utility and susceptibility of Notepad.

The talk was followed by a discussion on Windows Registry. Mr. Kataria, give details to access windows registry using command line as well as manually. He then gave practical demonstrated for each of the following:

- Hiding all icons on desktop.
- Disable Right click option
- Hiding/ Un-hiding drives of a system
- Creating & using virtual machine
- Locating viruses in registry
- Accessing services of windows
- Checking open ports of the system
- Removing virus (types of viruses were discussed)
- Creating virus
- Making antivirus ineffective to detect any virus

Other issues discussed were in context to Google Hacking, such as Crawler, Google Searching Techniques, Accessing Network Cameras, Internet Security, IP version 4, Changing Dynamic IP Address. Data Integrity, Foot-printing technique of Hacking, Email Security, MUA, MTA, MDA, Email Bombing, Sending Fake emails, Checking Originality of Mails, Email Tracker, SQL Injection.

Overall it was an extremely informative and an interactive session where faculties acquired theoretical as well as enormous practical knowledge on IT Security and Ethical Hacking.