

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYD

13MBA49

CYBER SECURITY

(SYSTEMS ELECTIVE)

Unit-I

Cyber crime: Mobile and Wireless devices-Trend mobility-authentication service security-Attacks on mobile phones-mobile phone security Implications for organizations-Organizational measurement for Handling mobile-Security policies and measures in mobile computing era.

Cases.

Unit-II

Tools and methods used in cyber crime-Proxy servers and Anonymizers- Phishing-Password cracking-Key loggers and Spy wares-Virus and worms-Trojan Horse and Backdoors-Steganography-SQL Injection-Buffer overflow-Attacks on wireless network.

Cases.

Unit-III

Understanding computer forensic-Historical background of cyber forensic-Forensic analysis of e-mail-Digital forensic life cycle-Network forensic-Setting up a computer forensic Laboratory-Relevance of the OSI 7 Layer model to computer Forensic-Computer forensic from compliance perspectives.

Cases.

Unit-IV

Forensic of Hand –Held Devices-Understanding cell phone working characteristics-Hand-Held devices and digital forensic- Toolkits for Hand-Held device-Forensic of i-pod and digital music devices-Techno legal Challenges with evidence from hand-held Devices.

Cases.

Unit-V

Cyber Security –Organizational implications-cost of cybercrimes and IPR issues-
Web threats for organizations: the evils and Perils-Social media marketing-
Security and privacy Implications-Protecting people privacy in the organizations-
Forensic best practices for organizations.
Cases.

Text book:

- **Nina Godbole & Sunit Belapure “Cyber Security”, Wiley India, 2012.**

Reference:

- Harish Chander, “cyber laws & IT protection”, PHI learning pvt.ltd, 2012.
- Dhiren R Patel, “Information security theory & practice”,PHI learning pvt ltd,2010.
- MS.M.K.Geetha & Ms.Swapne Raman”Cyber Crimes and Fraud Management,
”MACMILLAN,2012.
- Pankaj Agarwal : Information Security & Cyber Laws (Acme Learning), Excel,
2013.
- Vivek Sood, Cyber Law Simplified, TMH, 2012.