

UNIT - I**Chapter 1 : Cybercrime and Ethical Hacking****1-1 to 1-24****Syllabus :**

Introduction to Cybercrime, Types of Cybercrime, Classification of Cybercriminals, Role of computer in Cybercrime, Prevention of Cybercrime.

Ethical Hacking, Goals of Ethical Hacking, Phases of Ethical Hacking, Difference between Hackers, Crackers and Phreakers, Rules of Ethical Hacking.

Self Learning Topics : Exploring various online hacking tools for Reconnaissance and scanning Phase.

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Introduction to Digital Forensics, Need and Objectives of Digital Forensics, Types of Digital Forensics, Process of Digital Forensics, Benefits of Digital Forensics, Chain of Custody, Anti Forensics.

Digital Evidence and its Types, Rules of Digital Evidences.

Incident Response, Methodology of Incident Response, Roles of CSIRT in handling incident.

Self Learning Topics : Pre Incident preparation and Incident Response process.

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UNIT III

Chapter 3 : Computer Forensics

3-1 to 3-61

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Introduction to Computer Forensics, Evidence collection (Disk, Memory, Registry, Logs etc), Evidence Acquisition, Analysis and Examination (Window, Linux, Email, Web, Malware), Challenges in Computer Forensics, Tools used in Computer Forensics.

Self Learning Topics : Open source tool for Data collection & analysis in windows or Unix.

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Syllabus :

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Self Learning Topics : IDS types and role of IDS in attack prevention.

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UNIT -VI

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6-1 to 6-16

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Self Learning Topics : For an incident write a forensic report.

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