UNIT - I

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.

UNIT II

Syllabus :

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.

UNIT III

Syllabus :

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.

UNIT -IV

Syllabus :

Introduction, Evidence Collection and Acquisition (Wired and Wireless), Analysis of network evidences (IDS, Router), Challenges in network forensics, Tools used in network forensics.

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

UNIT V

Syllabus :

Introduction, Evidence Collection and Acquisition, Analysis of Evidences, Challenges in mobile forensics, Tools used in mobile forensics

Self Learning Topics : Tools / Techniques used in mobile forensics.

UNIT -VI

Syllabus :

Goals of Report, Layout of an Investigative Report, Guidelines for Writing a Report, sample for writing a forensic report.

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

❑❑❑