



B.P. Poddar Institute of Management and Technology
Department of Information Technology
Academic Year: 2025-26, Sem: Odd
Lesson Plan

Stream: B.Tech/IT-4th Year
 Subject: Cyber Security
 Subject Code: PEC IT702F

L.No	Description	Reference	Teaching Methodology	Teaching Aids
L1	Introduction to Cyber Security, Importance and challenges in Cyber Security	TE	presentation, Talk and Board wok	White board and Projector
L2	Cyberspace, Cyber threats, Cyberwarfare	TE	presentation, Talk and Board wok	White board and Projector
L3	CIA Triad, Cyber Terrorism,	TE	presentation, Talk and Board wok	White board and Projector
L4	Cyber Security of Critical Infrastructure	TE	presentation, Talk and Board wok	White board and Projector
L5	Cybersecurity - Organizational Implications	TE	presentation, Talk and Board wok	White board and Projector
L6	Cybersecurity - Organizational Implications	TE	presentation, Talk and Board wok	White board and Projector
L7	Types of Hackers, Hackers and Crackers	TE	presentation, Talk and Board wok	White board and Projector
L8	Cyber-Attacks and Vulnerabilities,	TE	presentation, Talk and Board wok	White board and Projector
L9	Malware threats, Sniffing, Gaining Access	TE	presentation, Talk and Board wok	White board and Projector
L10	Escalating Privileges, Executing Applications,	TE	presentation, Talk and Board wok	White board and Projector
L11	Escalating Privileges, Executing Applications,	TE	presentation, Talk and Board wok	White board and Projector
L12	Hiding Files, Covering Tracks	TE	presentation, Talk and Board wok	White board and Projector
L13	Worms, Trojans, Viruses, Backdoors.	TE	presentation, Talk and Board wok	White board and Projector
L14		TE	presentation, Talk and Board wok	White board and Projector
L15	Ethical Hacking Concepts and Scopes,	TE	presentation, Talk and Board wok	White board and Projector

L16	Ethical Hacking Concepts and Scopes,	TE	presentation, Talk and Board wok	White board and Projector
L20	Threats and Attack Vectors, Information Assurance,	TE	presentation, Talk and Board wok	White board and Projector
L21	hreat Modelling, Enterprise Information Security Architecture,	TE	presentation, Talk and Board wok	White board and Projector
L22	Vulnerability Assessment and Penetration Testing,	TE	presentation, Talk and Board wok	White board and Projector
L23	Types of Social Engineering, Insider Attack, Preventing Insider Threats	TE	presentation, Talk and Board wok	White board and Projector
L24	Social Engineering Targets and Defence Strategies.	TE	presentation, Talk and Board wok	White board and Projector
L25	Introduction to Cyber Forensics, Computer Equipment and associated storage media	TE	presentation, Talk and Board wok	White board and Projector
L26	Introduction to Cyber Forensics, Computer Equipment and associated storage media	TE	presentation, Talk and Board wok	White board and Projector
L27	Role of forensics Investigator, Forensics Investigation Process	TE	presentation, Talk and Board wok	White board and Projector
L28	Role of forensics Investigator, Forensics Investigation Process	TE	presentation, Talk and Board wok	White board and Projector
L29	Role of forensics Investigator, Forensics Investigation Process	TE	presentation, Talk and Board wok	White board and Projector
L30	Collecting Network based Evidence, Writing Computer Forensics Reports, Auditing	TE	presentation, Talk and Board wok	White board and Projector
L31	Collecting Network based Evidence, Writing Computer Forensics Reports, Auditing	TE	presentation, Talk and Board wok	White board and Projector
L32	Collecting Network based Evidence, Writing Computer Forensics Reports, Auditing	TE	presentation, Talk and Board wok	White board and Projector
L33	Plan an audit against a set of audit criteria, Information Security Management System Management.	TE	presentation, Talk and Board wok	White board and Projector
L34	Plan an audit against a set of audit criteria, Information Security Management System Management.	TE	presentation, Talk and Board wok	White board and Projector
L35	Introduction to Cyber Laws	RE	presentation, Talk and Board wok	White board and Projector
L36	E-Commerce and E-Governance, Certifying Authority and Controller	RE	presentation, Talk and Board wok	White board and Projector
L37	Offences under IT Act, Computer Offences and its penalty under IT Act 2000	RE	presentation, Talk and Board wok	White board and Projector
L38	Intellectual Property Rights in Cyberspace. at Network Layer-IPSec.	RE	presentation, Talk and Board wok	White board and Projector
L39	Intellectual Property Rights in Cyberspace. at Network Layer-IPSec.	RE	presentation, Talk and Board wok	White board and Projector

RESOURCES:

Text Books

1. Cyber security , Nina Gobole & Sunit Belapune; Pub: Wiley India.
2. Information Security & Cyber Laws, Gupta & Gupta, Khanna Publishing House (AICTE Recommended - 2018)
3. Information Security and Cyber Laws, Pankaj Agarwal
4. Donaldson, S., Siegel, S., Williams, C.K., Aslam, A., Enterprise Cybersecurity -How to Build a Successful Cyberdefense Program Against Advanced Threats, A-press

Reference Books

1. Hacking the Hacker, Roger Grimes, Wiley
2. Cyber Law By Bare Act, Govt Of india, IT Act 2000.