

## LESSON PLAN

**Name:** Pankaj Thakur      **Semester:** 6<sup>th</sup>      **Branch:** Computer Engineering

**Subject:** Elective-I (Cyber Security)

Month/ Year	Date /week	Chapter/ Unit	Contents to be taught	Remarks
September 2022	1, 2, 3 <b>1st</b>	UNIT -1 Introduction to Cyber Security	Basic Security Concepts, Cyber Security and need for cyber security	Reference Book: Network Security Essentials Applications and Standards by William Stallings
September 2022	5, 8, 9 <b>2nd</b>	----do----	Principles of Cyber Security - confidentiality, integrity, availability, authentication, authorization, and nonrepudiation.	----do----
September 2022	12, 15, 16 <b>3rd</b>	----do----	cyber security terminolo- gies: asset, threat, vulne- rability, hacking, hackers, attacker, intruder, virus, worm, trojan horse, back- door, logic bomb, eave- sdropping, phishing, spamming, keylogger and spyware; cyber crime, cryptocurrency	----do----
September 2022	19, 22, 23, 24 <b>4th</b>	Unit – 2 Cyber Security Threats, Vulnerabilities, and Risks	Adversarial Threats: fraud and theft, insider threat, malicious hacker, malicious code, espionage;	NIST Special Pub- lication An Intro- duction to Infor- mation Security by Michael Nieves Kelley Dempsey Victoria Yan Pillitteri
September 2022	26, 29, 30 <b>5th</b>	----do----	Non-Adversarial Threats: Errors and omissions, loss of physical and infrastruc- ture support, impact of information sharing on personal privacy.	----do----