Name Of the Faculty	: Ms Pooja
Discipline	: Computer Engg.
Semester	: 6th
Subject	: Network Security
Lesson Plan Duration	**:** 15 weeks from January to April -

Work Load (Lecture/Practical) per week (in hours): 03 Hours (lectures) 03 Hours per group (Practical's)

Week	Lecture day	Theory TOPIC (including assignment/test)	Day	Practical TOPIC
1st	1st	Need for securing a network	1	Installation of antivirus software
		Principles of security	2	
	2nd	Types of altacks		
	3rd	Introduction to cyber crime		
2nd	1st	Cyber law indian perspective(IT act 2000and amended 2008)	1	Installation of antivirus software
	2nd	Cyber ethics	2	
		Ethical hacking		
		Assignment; Cyber crime and cyber law in indian pesspective.		
	3rd	Whatis hacking ?		
		Attacker,phreaker etc.		
3rd	1st	Test of ch 1(introduction)	1	Installation of Firwall
	2nd	Basic Encryption and Decryption	2	
	3rd	Symmetric &asymmetric key Gyptogtaphy		
4th	1st	Overview of DES	1	Installation of Firwall
		RSA	2	
	2nd	PGP		
		Inlriduction to hashing		
	3rd	MD5		
		SSW		
5th	1st	SSH	1	Study of firwall parameters
		HTTPS	2	
		Assignment:-Encryption and Decryption Methods		
	2nd	Digital Signature		
	3rd	Digital certification		
6th	1st	Ipsec	1	Study of firwall parameters
		Assignment- Various hashing	2	
	2nd	Revision and Problem solving of chapter -2		
	3rd	Test-chapter2 (Securing data over Internet)		
7th	1st	Definitions(virus,Worms and tryans)	1	Writing Program in c to encrypt using XOR key
		Introduction to Preventive measures	2	
	2nd	Access central		
	3rd	Assignment-various Preventive Measures		
8th	1st	Process Configuration	1	Writing Program in c to encrypt using XOR key
	2nd	Virus scanners	2	
		Heuristic scanners		
	3rd	Application Level virus scanners		

Week	Lecture day	Theory		Practical	
		TOPIC (including assignment/test)	Day	Day	TOPIC
9 th	1st	Deploying virus Protection	1		Study of VPN
		Assignment- various types of virus scanners	2		
	2nd	Test- chapter3(virus ,Worms and Trojans			
	3rd	Definition of Firewall			
		Types of Firewall			
10th	1st	Types of Firewalls	1		Study of VPN
		Limitation of firewall	2		
	2nd	Firewall configuration			
		Assignment- Definition ,types and Limitation of firewall			
	3rd	Test -chapter 4 firewalls			
11th	1st	Introduction to IDS	1		Various hacking tools
		Teardrop attacks	2		
		Counter meusures			
	2nd	Host Based IDS setup			
		Assignment- IDS wirh Limitations			
	3rd	Test -chapter 5 IDS			
12th	1st	Handlingcyber assest as per configuration policy standards	1		Various hacking tools
	2nd	Disposable policy	2		
		Assignment-Handling cyber Assests and Disposable policy			
	3rd	Basic of VPN			
		Setting of VPN			
13th	1st	VPN Diagram	1		Hacking tool
	2nd	Configuration of required objects	2		
	3rd	Exchanging keys			
14th	1st	Modifying security policy	1		Application of Digital Sinnature
		Assignment-VPN along with setting and diagram	2		
	2nd	Test - Chapter 7 - VPN			
	3rd	Network disaster			
		Cabling to pology			
15th	1st	Single point of failure	1		Application of Digital signature
		Save configuration file	2		
	2nd	Server disasters			
		UPS ,RAID			
	3rd	Clustering			
		Backups			
		Server Recovery			
		Assignment- Network and Server Disasters			