

Computer and Network Security

Fall Semester 2002
Mr. Athar Mahboob

Lecture Plan

S. No.	Topic	Week No.
1	Introduction to Computer Security – IT Environment, Threats and Goals of Computer and Network Security	1
2	Encryption and Cryptography	2, 3
3	Symmetric Encryption Algorithms – DES	4
4	Asymmetric Encryption Algorithms – RSA	5
5	Digital Signatures and Message Authentication	6
6	Pseudo-random Number Generation and its Computational Complexity – CSPRNG	7
7	Secure Sockets Layer	8
8	IP Security	9
9	Virtual Private Networks	10
10	Malicious Programs, Viruses and Virus Protection Strategies	11
11	Fault Tolerance and RAID and UPS Systems	12
12	Data Backups	13
13	Email Security	14
14	Firewalls	15
15	Windows NT Security	16
16	UNIX/Linux Security	16