University of Pune
Pattern 2013
Class:- M.C.A(Commerce) Sem-IV
Subject:- Cyber Law and Information Security (407)

Objective:-

1. To learn different cyber laws
2. To know Information Security Techniques

Chapter No	Topic	No of lectures	Ref. Book
Chapter 1	**Chapter 1: Intellectual Property Laws** -Copyright -Patents -Registered design -Design right -Trade marks	4	1
Chapter 2	**Chapter 2: New Technology and Copyright** -Copyright protection for computer programs -Literal and Non-Literal copying of computer program -Copyright and electronic publishing	3	1
Chapter 3	**Chapter 3: Cyber Law and IT Act** -Fundamentals of cyber law -Introduction to Indian cyber law -Information Technology Act 2000 -Digital Signature. -Electronic Governance. -Attribution, Acknowledgement and Dispatch of Electronic Records. -Secure electronic Records and Secure Digital Signatures. At least two case studies. -Regulation of certifying Authorities. At least two case studies. -Duties of Subscribers. At least two case studies.	8	1,5
Chapter 4	**Chapter 4: Introduction to Information Security** -History of Information Systems and	4	3, 4

	its Importance -Changing Nature of Information Systems -Basic Principles of Information Security, Confidentiality, Integrity and Availability		
Chapter 5	**Chapter 5: Classical Encryption Techniques** -Symmetric Cipher Model -Substitution Techniques -Transposition Techniques -Rotor Machines -Steganography	10	2
Chapter 6	**Chapter 6: Public Key Cryptography and RSA** - Principles of public key cryptosystems - The RSA algorithm	6	2
Chapter 7	**Chapter 7: IP and Web Security** -IP security overview -IP security architecture -Authentication Header -Encapsulating Security -Web security consideration -Secure socket layer and Transport layer security -Secure electronic transaction	8	2
Chapter 8	**Chapter 8: Firewalls** - Firewall design principles - Trusted system	2	2

Reference Books:

1) Cyber Laws- Krishna Kumar Dominant Publishers And Distributors

2) Cryptography and Network Security –William Stallings, Pearson Education.

3) Information Systems Security- Godbole, Willey Publication
4) Information Security- Merkov, Breithaupt , Pearson Education
5) Cyber Law in India — Dr. Farooq Ahmad (Published By- Pioneer Books)