

## M.Com. 105 Information system and E-Commerce Practices and E- Security & Cyber Laws

Unit No.	Unit Title	Contents
1	Introduction to Information Systems	System Concepts, Information Systems Architecture, Definition of a system, Basic Components of a system, Elements and types of a systems, General Model of a system, The model of a Business system. Information systems supporting major business functions. Four major types of systems – Transaction Processing Systems, Management Information systems, Decision Support Systems and Executive Support systems
2	Introduction to E-Commerce	Meaning and Definition of E-commerce, Benefits of E-Commerce to Businesses, Consumers and Society, Limitations of E-Commerce, Drivers of E-Commerce. Categories of e-Commerce- B2B, B2C, C2C, B2G and G2B. B2B applications, B2C applications and C2C applications.
3.	Inter organizational Information Systems and Internet	Internet, Intranet and Extranet, Introduction, Role, benefits and structure of Inter organizational systems. Introduction to Electronic Data Interchange (EDI), Definition, benefits of EDI. EDI transactions and EDI Applications. Electronic Fund transfer. Introduction to Internet, Definition of Internet, Components of Internet, Services offered by Internet. Introduction to Intranet, Definition, advantages and disadvantages of intranet. Introduction to extranet and definition and applications of Extranet.
4.	E-Commerce Supporting functions	Purchase and sale Procedures, Supply Chain management, Value Chains in E-Commerce. Electronic Payment Systems, Authentication of payment, Mode of Payments E-Commerce Security. Security Requirements. Security Mechanisms- Encryption, Digital Signature, E-Certificate, Secure electronic transaction protocol. Problems in Taxing of E-Commerce
5.	Introduction to Computer crimes	Computer Crimes. Types of Computer crimes, Specific Threats, Attacks on Computer Systems, Major types of Security Problems / Common threats, Computer Frauds and abuse techniques. Characteristics and types of computer frauds. Preventing Computer Frauds and Ethical Considerations. System Vulnerability and abuse – Internet Vulnerability. Protecting Information systems from potential threats. E-Commerce security issues. Risk Involved in E-Commerce. Protecting E-Commerce System.
6.	E-Security	Introduction to E-Security and Security Requirements. Types of Intruders, attacking methods, Hackers and Crackers. Computer Viruses, Spam, Denial of services. Security Policy, Secure E-Transactions. Types of Information Systems Controls- General Controls – Physical Controls, Access Controls, Biometric Controls, data Security Controls and Application Controls. Security Tools and Methods- Password, Authentication, Access Control, Encryption, Firewall, Antivirus Software, Digital Identity and digital Signature, Digital Signature Certificate. Secure Socket Layer and Secure Electronic Transaction Protocols.

7.	Cyber Laws (Information Technology Act, 2000) Part-I	Introduction to Cyber Laws—Meaning & scope of Cyber Laws, online contracts, Requirements & legal aspects of e-contracts (offer and acceptance in e-form), Cyber Laws & legal issues ( cyber jurisprudence, & sovereignty, net neutrality, freedom of speech in cyber space, governance)  Information Technology Act – 2000 Part-I  Digital Signature-definition, meaning, functions, procedure, E- Governance ( Ss. 4 to 9 ), E- Records ( Ss 11 to 16 ), Controller of Certifying Authority (powers, functions u/s 17 to 20), Digital Signature Certificates, License to issue Digital Signature Certificates, (suspension, revocation etc.--Ss.21 to 26), Duties of Certifying Authority (Ss.30 to 34), Provisions relating to Digital Signature Certificates (Ss. 35 to 39), Duties of subscriber
8.	Cyber Laws (Information Technology Act, 2000) Part-II	Penalties for Cyber wrongs and Adjudication (Ss. 43 to 47), Cyber Regulation Appellate Tribunal (Procedure and Powers (Ss.48 to 51, 57 to 64) Cyber Crimes/Offences & punishment (u/s 65 to 79), Offences by Companies (S.85) Amendments effected in IPC 1860, Indian Evidence Act, 1872, Bankers Books Evidence Act, 1891, Reserve Bank of India Act, 1934 pursuant to Ss. 91 to 94 of ITA, 2000.

**Note: \*All Acts are to be studied with recent amendments**

**Reference Books:**

Sr. No.	Title of the Book	Author/s	Publication
1.	E-commerce	Devid Whiteley	McGraw Hill
2.	E-commerce	P.Joseph	PHI
3.	E-commerce – The cutting edge of business	K.Bajaj and Nog	TMH
4.	Text book on Intellectual property rights	N.K. Acharya	Asia Law House
5.	Guide to Cyber Laws	Rohnay D. Ryder	Wadhwa, Nagpur
6.	Cyber Laws	Justice Yatindra Singh	Universal Law Publishing Co.
7	E-COMMERCE and ITS APPLICATIONS	Dr. U. S. Pandey, Rahul Srivastava and Saurabh Shukla.	S. Chand & Company, New Delhi
8	Management Information and Control Systems	Dr. Sushila Madan	TAXMANN'S
9	Electronic Commerce from Vision to Fulfillment	Elias M. Awad	Pearson Education
10	Text book on Intellectual property rights	N.K. Acharya	Asia Law House
11	Law of Information Technology (Cyber Law)	D. P. Mittal	TAXMANN'S
12	Guide to Cyber Laws	Rohnay D. Ryder	Wadhwa, Nagpur
13	Cyber Laws	Justice Yatindra Singh	Universal Law Publishing Co, New Delhi
14	Law of Information Technology	D.P. Mittal	
15	Cyber Laws	Krishnakumar	

16	Encyclopedia of Cyber Laws	Sujeet Kumar	
17	Handbook of Cyber Laws	Vakul Sharma	

### Suggested Web references

PPTs	Others
PPT – Presentation On Electronic Security PowerPoint presentation ... <a href="https://www.powershow.com/.../Presentation_On_Electronic_Security_powerpoint_pp...">https://www.powershow.com/.../Presentation_On_Electronic_Security_powerpoint_pp...</a>	<a href="https://economictimes.indiatimes.com/industry/services/retail/indian-e-commerce-market-to-touch-usd-84-billion-in-2021-report/articleshow/68169239.cms">https://economictimes.indiatimes.com/industry/services/retail/indian-e-commerce-market-to-touch-usd-84-billion-in-2021-report/articleshow/68169239.cms</a>
<a href="https://www.slideshare.net/jolly9293/seminar-ppt-on-digital-signature">Seminar ppt on digital signature - SlideShare</a> <a href="https://www.slideshare.net/jolly9293/seminar-ppt-on-digital-signature">https://www.slideshare.net/jolly9293/seminar-ppt-on-digital-signature</a>	<a href="https://www.ibef.org/industry/ecommerce.aspx">https://www.ibef.org/industry/ecommerce.aspx</a>
<b>E-Security:</b> <a href="https://slideplayer.com/slide/5139575/">https://slideplayer.com/slide/5139575/</a>	<a href="https://www.thebalancesmb.com/electronic-data-interchange-edi-2221329">https://www.thebalancesmb.com/electronic-data-interchange-edi-2221329</a>
—	<a href="https://www.up.com/suppliers/order_inv/edi/what_is_edi/">UP: What Is Electronic Data Interchange?</a> <a href="https://www.up.com/suppliers/order_inv/edi/what_is_edi/">https://www.up.com/suppliers/order_inv/edi/what_is_edi/</a>
<a href="https://www.slideshare.net/AdityaShukla7/cyber-law-in-india-its-need-importance">Cyber law In India: its need &amp; importance – Slide Share</a> <a href="https://www.slideshare.net/AdityaShukla7/cyber-law-in-india-its-need-importance">https://www.slideshare.net/AdityaShukla7/cyber-law-in-india-its-need-importance</a>	<a href="https://www.meity.gov.in/content/cyber-laws">Cyber Laws   Ministry of Electronics and Information Technology ...</a> <a href="https://www.meity.gov.in/content/cyber-laws">(https://www.meity.gov.in/content/cyber-laws)</a>
<a href="https://digitalindia.gov.in/.../files/MeitY_Cyber%20Security_13%20Feb_Final.pdf">Cyber Security &amp; Cyber Law - Digital India</a> <a href="https://digitalindia.gov.in/.../files/MeitY_Cyber%20Security_13%20Feb_Final.pdf">https://digitalindia.gov.in/.../files/MeitY_Cyber%20Security_13%20Feb_Final.pdf</a>	Cyber Laws in India <a href="http://www.legalserviceindia.com/cyber/cyber.htm">http://www.legalserviceindia.com/cyber/cyber.htm</a>