Course: 602: e-Commerce and Cyber Security

Course Code	602
Course Title	e-Commerce and Cyber Security
Credit	3
Teaching per Week (Min.)	3 Hrs
Minimum weeks per Semester	15 (Including Class work, examination, preparation etc.) Total 30 hours
Review / Revision	June 2019
Purpose of Course	To make students aware of e-Commerce, Cyber Security, Cyber Crime and Cyber Laws
Course Objective	To impart basic knowledge of e-Commerce, Cyber Security, Cyber Crime & Cyber Law
Pre-requisite	Fundamental Knowledge of Networking, Web Applications & RDBMS
Course Out come	The students will get the basic knowledge of e-Commerce, Cyber Security, Cyber Crime & Cyber Law and hence will help them in developing secured applications and will make them aware of various Cyber Laws

Course Content	**Unit 1. Introduction to Electronic Commerce**
	1.1 What is e-Commerce?
	1.2 Aims of e-Commerce
	1.3 e-Commerce Framework
	1.4 e-Commerce Consumer Applications
	1.5 e-Commerce Organizational Applications
	1.6 Introduction to m-Commerce
	
	Unit 2. The Network Infrastructure of e-Commerce
	2.1. What is Information Way?
	2.2. Components of I-Way
	    2.2.1. Network Access Equipment
	    2.2.2. Local on-ramps
	    2.2.3. Global Information Distribution Network
	2.3. Transaction Models
	
	Unit 3. e-Commerce Payments and Security Issues
	3.1. e-Commerce Payment Systems
	    3.1.1. Debit Card Based
	    3.1.2. Credit Card Based
	    3.1.3. Risks & EPS
	    3.1.4. e-Cash and e-Cheque
	3.2. Security on Web
	3.3. SSL
	
	Unit 4. Introduction to Cyber Crimes
	4.1 Category of Cyber Crimes
	4.2 Technical Aspects of Cyber Crimes
	    4.2.1 Unauthorized access & Hacking
	    4.2.2 Trojan, Virus and Worm Attacks
	    4.2.3 E-Mail related Crimes
	        4.2.3.1 E-mail Spoofing and Spamming
	        4.2.3.2 E-Mail Bombing
	        4.2.3.3 Denial of Service Attacks
	        4.2.3.4 Distributed Denial of Service Attack

	Unit 5. Prohibited Actions on Cyber Crimes 5.1 Pornography 5.2 IPR Violations: Software piracy, Copyright Infringement, Trademarks Violations, Theft of Computer source code, Patent Violations 5.3 Cyber Squatting 5.4 Banking/ Credit card related crimes 5.5 e-Commerce / Investment Frauds 5.6 Defamation (Cyber Smearing) 5.7 Cyber Stacking
Reference Book	1. Frontiers of Electronic Commerce, Ravi Kalakota and Andrew Whinston, Addition Wesley 2. Electronic Commerce: A Managerial Perspective, Efraim turban, Jae Lee, David King, H. Michel Chung, Addition Wesley 3. E-Commerce: An Indian Perspective, Joseph, PHI 4. E-Mail Hacking, Ankit Fadia, Vikas Publishing House Pvt. Ltd. 5. e-Commerce Concept, Models Strategies, G.V.S. Murthy, Himalaya Publisher 6. Cyber Crime in India, Dr M Dasgupta, Centax Publications Pvt Ltd 7. Cyber Laws and Crimes, Barkha U, Rama Mohan, Universal Law Publishing Co. Pvt Ltd. 8. Cyber Crime, Bansal S.K., A.P.H. Publishing Corporation 9. Cyber Security Understanding Cyber Crime, Computer Forensic and Legal Perspectives, Nina Godbole, Sunit Belapur, Willey India Publication
Teaching Methodology	Class Work, Discussion, Self-Study, Seminars and/or Assignments
Evaluation Method	30% Internal assessment. 70% External assessment.