Course: 602 – E-Commerce and Cyber Security

Course Code	602
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	$\frac{4}{100}$
Teaching / Week	4 Hours / Week (Suggested) (Total Minimum 48 Hours)
Minimum Weeks/Semester	15 Weeks (Including Class work, preparation, Examinations etc.)
Review/Revision	2021-2022
Implementation Year	2022-2023 A.Y.
Purpose of Course (POC)	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 I aw
Pre-requisite	Fundamental Knowledge of Networking Web Applications &
The requisite	Database
Course Outcome	The students will get the basic knowledge of e-Commerce Cyber
Course Outcome	Security Cyber Crime & Cyber I aw and hence will help them in
	developing secured applications and will make them aware of various
	Cyber Laws
Content	Unit 1: Introduction to Electronic Commerce
Content	1.1 Concepts of 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: Network Infrastructure of e-Com . Payment and Security:
	2.1. Concepts of 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
	2.4 e-Commerce Payments and Security Issues
	2.4.1. e-Commerce Payment Systems
	2.4.2. Debit Card Based, Credit Card Based, Risks & EPS
	2.4.3. e-Cash, e-Cheque, e-wallet
	2.5. Security on Web, SSL
	Unit-3: Introduction to Cyber Crimes:
	3.1 Category of Cyber Crimes
	3.2 Technical Aspects of Cyber Crimes
	3.2.1 Unauthorized access & Hacking
	3.2.2 Trojan, Virus and Worm Attacks
	3.2.3 E-Mail related Crimes: Spoofing, Spamming, Bombing
	3.2.4 Denial of Service Attacks
	3.2.5 Distributed Denial of Service Attack
	3.5 Various crimes :
	3.3.1 IPR Violations (Software piracy, Copyright Infringement,
	Trademarks Violations, Theft of Computer source code, Patent
	violations)
	5.5.2 Cyber Squatting, Cyber Smearing, Cyber Stacking
	5.5.5 Financial Unimes: (Banking, credit card, Debit card related)
	Unit 4.
	Unit-4: 4.1 Concents of Cuber Security
	4.1 Concepts of Cyber Security:

	4.1.1 Types of Threats
	4.1.2 Advantages of Cyber Security
	4.2 Basic Terminologies:
	4.2.1 IP Address, MAC Address
	4.2.2 Domain name Server(DNS)
	4.2.3 DHCP. Router. Bots
	4.3 Common Types of Attacks:
	4 3 1 Distributed Denial of Service
	4.3.2 Man in the Middle Email Attack
	4.3.2 Deservord Attack Malwara
	4.5.5 rassword Addex, Marware
	4.4.1 Various vulnerabilities:
	4.4.1.1 Injection attacks, Changes in security settings
	4.4.1.2 Expouser of Sensitive Data
	4.4.1.3 Breach in authentication protocol
	4.4.2 Types of Hackers: White hat and Black hat
	Unit-5:
	5.1 Ethical Hacker
	5.1.1 Roles and Responsibilities
	5.1.2 Benefit of Ethical Hacking
	5 1 3 Skills require to become Ethical hacker
	5.7.9 Sentis require to become Ethical nacker
	5.2.1 Phases of Ethical backing
	5.2.2 A roos of population tasking
	5.2.2 Areas of penetration testing
	5.5 SQL Injection.
	5.3.1 Concepts of SQL Injection
	5.3.2 Types of SQL Injection
	5.3.3 Case study of SQL Injection
	5.4 Firewall:
	5.4.1 Concepts of Firewall
	5.4.2 Types of Firewall
	5.4.3 Working, Advantages and Importance of Firewall
	[All Units carry Equal Weightage]
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 Pyt I td
	7 Cyber Laws and Crimes Barkha II Rama Mohan Universal Law
	Publishing Co. Dut Ltd
	2 Cyber Crime Rensel SV A DU Dublishing Comparation
	o. Cyber Chine, Dansar 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.