

VEER NARMAD SOUTH GUJARAT UNIVERSITY – SURAT
Bachelor of Computer Application (B.C.A) 3rd Year
Syllabus (As Per CBCS)

T. Y. B. C. A. Semester 6
Effective From: June 2013.

Paper No.: 602 (Core Elective) **Teaching Hours:** 3 Hrs./Week
Paper Title: e-Commerce & Cyber Security **Credits:** 3

Prerequisite: Fundamental Knowledge of Networking, Web Applications & RDBMS.

Aim: To impart basic knowledge of e-Commerce, Cyber Security, Cyber Crime & Cyber Law.

Expected Outcome: 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.

1. Introduction to e-Commerce

- 1.1. What is e-Commerce?
- 1.2. e-Commerce Framework

2. e-Commerce Consumer Applications

- 2.1. e-Commerce Organization Application
- 2.2. Network for e-Commerce
- 2.3. What is Information Way

3. e-Commerce and World wide Web

- 3.1. e-Commerce application services
- 3.2. Consumer to Business Transaction
- 3.3. Business to Business Transaction
- 3.4. Security on the web

4. E-Commerce Security Issues

- 4.1. Secure Socket layer
- 4.2. Types of electronic payment systems
 - 4.2.1. E Cash
 - 4.2.2. Electronic checks
 - 4.2.3. Smart cards and electronic payment system
 - 4.2.4. Credit cards and Debit Cards payment and their authentication

5. Introduction to Cyber Crimes

- 5.1. Category of Cyber crimes
- 5.2. Technical Aspects of Cyber Crimes
 - 5.2.1. Unauthorized access & Hacking
 - 5.2.2. Trojan, virus and worm Attacks

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- 5.3. E-mail related crimes
 - 5.3.1. Email spoofing and Spamming
 - 5.3.2. Email bombing
 - 5.3.3. Denial of Service attacks
 - 5.3.4. A distributed denial of service (DoS) attack

6. Prohibited Actions on Cyber

- 6.1. Pornography
- 6.2. IPR violations: software piracy, copyright infringement, trademarks violations, theft of computer source code, patent violations
- 6.3. Cyber Squatting
- 6.4. Banking/Credit card Related crimes
- 6.5. E-commerce/ Investment Frauds
- 6.6. Defamation (Cyber smearing)
- 6.7. Cyber Stacking

References:

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|----|--|--|--|
| 1 | Frontiers of of Electronic Commerce | Kalakota and Whinstn | Addition Wesley |
| 2 | Electronic Commerce : A Mangerial Prespective | Efraim Turban, Jae Lee, David King, H.Michel Chung | Addition Wesley |
| 3 | IT Encyclopedia.com Volume 8 : E-Commerce | Parag Diwan & Sunil Sharma | Pentagon Press |
| 4 | Cyber Crime in India | By: Dr M Dasgupta | ISBN : 8171772209 |
| 5 | E-Commerce : An Indian Perspective, 3rd Edition | Joseph | PHI |
| 6 | Cyber Law and Crimes | Barkha U, Rama Mohan | ISBN : 9180087276 |
| 7 | Law Relating to Computers Internet and E-Commerce : 2009 Edition: Fourth | Nandan Kamath | ISBN : 8175347786 |
| 8 | Email Hacking | Ankit Fadia | Vikas Publishing House Pvt. Ltd. |
| 9 | E-Commerce Concept, Models Strategies-2011 | G.S.V.Murthy Himalaya | Himalaya Publisher ISBN 8178662760 , 9788178662763 |
| 10 | Cyber Security Understanding Cyber Crime, Computer Forensic and Legal Perspectives | Nina Godbole, Sunit Belapur | Willey India Publication, Apr-2011 |
| 11 | Ethical Hacking Guide to Corporate Security | Ankit Fadia | Macmillan India Ltd. |
| 12 | Cyber Crime | Bansal S.K | A.P.H Publishing Corporation ISBN |

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13	Cyber Law – E-Commerce & M-Commerce	Ahmed Tabrez	9788176484178 APH Publisher Corporation ISBN 8176483834.
14	E-Security Electronic Authentication and Information System Security	Sundeeep Oberoi	TMH
15	Cyber Law Simplified	Vivek Sood	TMH, ISBN 0070435065.