

SEMESTER VI

Skill based Subject – Cyber Law and Security

Instructional Hrs:45

Sub. Code: 17CEUSP04

Max. Marks: CIA-25; ESE-75

Credits : 3

Objectives: To enable the students to acquire knowledge about the regulation of E-Commerce, facilitate E-governance and to prevent cybercrime.

UNIT –I

9 Hrs.

Introduction to Information Security – Need for Information System. **Role of Internet and Web Services:** Mobile Devices and Wireless Communication – GSM Security – SIM Card. **Organizational Security:** *Electronic Information* – Confidentiality of Files – Identification and Authentication – Physical Attack Methods – Loss of Access to Physical Systems.

UNIT-II

9 Hrs.

Network Security: Why Network Security is Important – Intrusion monitoring and Detection - Types of IDS – *Types of Attacks* – Firewalls

UNIT-III

9 Hrs.

Security Metrics: Introduction Measurement Basics – Key Characteristics of Security Metrics – *Risk* – Analyzing Security Metrics Data – How to identify and Select Right Metrics.

UNIT-IV

9 Hrs.

Information Security and Laws: Introduction – Legal Perspective IPR – Copyright Law – Patent Law – **Ethical Issues** – Privacy issues for Data and Software

UNIT-V

9 Hrs.

Cyber Crimes and Related Laws: Introduction – *Types of Cyber Crimes* – Cyber Law – Information Technology Act, 2000. Cyber Law cases India and Abroad.

Note: *Italics denote topics for self study.*

TEXT BOOK

1. **Saurabh Sharma**, *Information Security and Cyber Laws*, Vikas Publishing House Pvt. Ltd., New Delhi, First Edition 2011.

REFERENCE BOOKS

1. **Rachel N P, Mohanasoundari R, Karpagavalli V**, *A Text book of Cyber Law*, Shree Mahalakshmi Publishers, New Delhi, First Edition 2017.
2. **Thakur, L K & Narayan Asit**, *Internet Marketing E-Commerce and Cyber Law*, Authors Press, New Delhi, 2005.