



Shri Vaishnav Vidyapeeth Vishwavidyalaya, Indore
Shri Vaishnav Institute of Information Technology
Choice Based Credit System (CBCS) in Light of NEP-2020
Generic Elective Courses (GEC) (2021-2025)

| COURSE CODE | CATEGORY | COURSE NAME | TEACHING & EVALUATION SCHEME | | | | | | | | |
|-------------|----------|----------------------------|------------------------------|---------------|----------------------|-------------------------|----------------------|---|---|---|---------|
| | | | THEORY | | | PRACTICAL | | L | T | P | CREDITS |
| | | | ENDESEM University Exam | Two Term Exam | Teachers Assessment* | ENDESEM University Exam | Teachers Assessment* | | | | |
| GESVIIT501U | GEC | Cyber Security and IT Acts | 60 | 20 | 20 | 0 | 0 | 2 | 1 | 0 | 3 |

Legends: L - Lecture; T - Tutorial/Teacher Guided Student Activity; P – Practical; C - Credit;

***Teacher Assessment** shall be based following components: Quiz/Assignment/ Project/Participation in Class, given that no component shall exceed more than 10 marks.

Course Objectives:

1. Understand the threats in networks and security concepts.
2. Apply authentication applications in different networks.
3. Understand security services for email, mobile and computer system.
4. Awareness of methods and tools used in cyber line.
5. To understand the ethics and laws by which cyberspace is governed in our country and worldwide

Course Outcomes:

1. Understand the basic issues emerging from cyberspace.
2. Demonstrate various security issues in mobile computing and computer system.
3. Explore methods and tools used in different types of attacks.
4. Understand relationship between commerce and cyberspace.
5. Explore the legal and policy developments in various countries to regulate cyberspace.

Syllabus:

UNIT-I

Introduction to Cyberspace and Cybersecurity, Introduction to Cybercrime: Cybercrime Definition and Origins of Cybercrime of the World, Classifications of Cybercrime, Information Security, Global Perspective on Cybercrimes, Types of Attacks.

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UNIT II

Trends in Mobility Wireless Era, Security Challenges Faced by Mobile Devices, Registry Setting for Mobile Devices, Attacks on Mobile Phones, Security Implications for Organizations, Organizational Measures for Handling Mobile Phones: Device Related Security Issues, Security Policies and Measures in Mobile Computing Era and Laptops.

UNIT III

Introduction to Methods and Tools used in Cyber Line: Password Cracking, Key-loggers and Spywares, Virus and Worms, Trojan and Backdoor, Steganography, DoS and DDoS Attacks, SQL Injection and Buffer Overflow, Phishing and Identity Theft (ID Theft), Attacks on Wireless Networks.

UNIT IV

Introduction to e-Commerce, Contract Aspects in Cyber Law, Security Aspects of Cyber Law, Intellectual Property Aspect in Cyber Law and Evidence Aspect in Cyber Law, The Criminal Aspects in Cyber Law, Global Trends in Cyber Law, Legal Framework for Electronic Data Interchange Law Relating to Electronic Banking, Need for Indian Cyber Law.

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UNIT-V

Information Technology Act 2000, Penalties, Adjudication and Appeals under the Information Technology Act, 2000. Offences under Information Technology Act 2000, Cyber Appellate Tribunal, Information Technology Act 2008 and Its Amendments.

Text Books:

1. Nilakshi Jain, Ramesh Menon, "Cyber Security and Cyber Laws", 2020, Wiley Publication India.
2. Charles P. Fleeger, "Security in Computing", Prentice Hall, New Delhi, 2009.
3. Behrouz A. Forouzan, "Cryptography & Network Security", Tata McGraw Hill, India, New Delhi, 2009.
4. William Stallings, "Cryptography and Network Security", Prentice Hall, New Delhi, 2006
5. Pawan Duggal, "CYBER LAW-The Indian Perspective", 2016, Universal Law publishing.

Reference Books:

1. Chalie Kaufman, Radia Perlman, Mike Speciner, "Network Security: Private Communication in a Public Network", Pearson Education, New Delhi, 2004.
2. Neal Krawetz, "Introduction to Network Security", Thomson Learning, Boston, 2007.
3. Bruce Schneier, "Applied Cryptography", John Wiley & Sons, New York, 2004.
4. Doctrine of IT Act of India, Government of India Publication (2000)

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