

**B.A. (VS) Insurance Management**  
**Semester V**  
**DISCIPLINE SPECIFIC ELECTIVE COURSE (DSE- 5.4)**  
**Information Security & Cyber Laws**

**CREDIT DISTRIBUTION, ELIGIBILITY AND PRE-REQUISITES OF THE COURSE**

Course Title & Code	Total Credits	Lectures	Tutorial	Practical	Eligibility criteria	Pre-requisite of the course
Information Security & Cyber Laws DSE – 5.4	4	3	1	-	Pass in class 12 <sup>th</sup>	-

**Learning Objectives:** The course aims to familiarize students with the fundamental concepts of information and its security. It will equip students with an understanding of relevant rules and laws applicable to the security of information.

**Learning Outcomes:** After completion of the course, learners will be able to:

1. explain the basic concepts related to data, information and information system.
2. demonstrate the use of different IT tools for business growth.
3. differentiate the methods for authentication of electronic records
4. appraise the different information related policies.

**Unit 1: Data & Information**

**10 Hours**

Data: meaning, types, storage; Information, meaning, attributes, role of information in business; Information Security (IS): Meaning, objectives; Information security policy: meaning, tools to implement information security policy, issues, types, components.

**Unit 2: Information System**

**10 Hours**

System: meaning, classification; Information System: meaning, components, functional perspective, Types of information system; Computer based information system; Impact of IT on information system; IT tools crucial for business growth.

**Unit 3: Cyber Frauds & Information Technology (Amendment) Act, 2008**     **15 Hours**

Cyber Frauds: meaning, types, reasons behind the rise, impact of cyber frauds on business, techniques to commit cyber frauds.

Information Technology (Amendment) Act, 2008: objectives; applicability; definitions: electronic signature, digital Signature, subscriber, asymmetric crypto system, key pair, private key, public key, hash function; electronic governance; penalties (u/s 43, 44 & 45); electronic offences; national nodal agency (NNA) and Indian computer emergency response team (ICERT).

## Unit 4: Government Policies

10 Hours

Information Technology Rules, 2011; Information Technology (Reasonable security practices and procedures and sensitive personal data or information) Rules, 2011; National Cyber Security Policy, 2013; The Information Technology Rules, 2021; National Cyber Security Strategy 2020; IRDAI's Guidelines on Information and Cyber Security for Insurers; Policy on use of IT resources of Government of India; Password Policy

### Exercises:

The learners are required to:

1. use newspapers/ websites/ reports etc. to collect data related to cyber frauds in insurance sector and retrieve meaningful information from that. (Unit – 1)
2. create a group of 4 or 5 students to investigate IT tools used by five different insurance companies in their business and make a comparative group presentation. (Unit – 2)
3. collect overall information regarding digital signature certificate and make a Power Point Presentation. (use: <https://www.mca.gov.in/MinistryV2/digitalsignaturecertificate.html> ). (Unit – 3)
4. select any five companies and collect information disclosed in their annual reports for cyber security, prepare a summary of it. (Unit – 4)

### Suggested Readings:

- Arora, S & Arora, R (2021). Taxmann's Cyber Crimes & Laws: Taxmann Publications Private Limited.
- Fatima, T. (2017). Cyber Law in India. Netherlands: Wolters Kluwer.
- Godbole, N. (2017). Information Systems Security: Security Management, Metrics, Frameworks And Best Practices (With Cd ). India: Wiley India Pvt. Limited.
- Gupta, S & Gupta. G (2019). Information Security & Cyber Laws. India: Khanna Book Publishing Company (P) Limited.
- Mishra, K. Akash (2020). An Overview on Cybercrime & Security, Volume - I: Notion Press.
- Nadkarni, S. (2020). Fundamentals of Information Security: A Complete Go-to Guide for Beginners to Understand All the Aspects of Information Security. India: BPB Publication.
- Rathod, F. (2014). Handbook on Cyber Crime and Law in India: Cyber Crime, Investigation and Cyber Law.
- [https://www.meity.gov.in/writereaddata/files/it\\_amendment\\_act2008%20%281%29\\_0.pdf](https://www.meity.gov.in/writereaddata/files/it_amendment_act2008%20%281%29_0.pdf)
- [https://www.meity.gov.in/writereaddata/files/GSR313E\\_10511%281%29\\_0.pdf](https://www.meity.gov.in/writereaddata/files/GSR313E_10511%281%29_0.pdf)
- <https://cis-india.org/internet-governance/files/it-reasonable-security-practices-and-procedures-and-sensitive-personal-data-or-information-rules-2011.pdf>
- [https://www.meity.gov.in/writereaddata/files/downloads/National\\_cyber\\_security\\_policy-2013%281%29.pdf](https://www.meity.gov.in/writereaddata/files/downloads/National_cyber_security_policy-2013%281%29.pdf)
- <https://prsindia.org/billtrack/the-information-technology-intermediary-guidelines-and-digital-media-ethics-code-rules-2021>

- [https://www.dsci.in/sites/default/files/documents/resource\\_centre/National%20Cyber%20Security%20Strategy%202020%20DSCI%20submission.pdf](https://www.dsci.in/sites/default/files/documents/resource_centre/National%20Cyber%20Security%20Strategy%202020%20DSCI%20submission.pdf)
- <https://www.cert-in.org.in/>
- [https://www.aicofindia.com/AICEng/General\\_Documents/Notices%20And%20Tenders/IRDAI-GUIDELINES.pdf](https://www.aicofindia.com/AICEng/General_Documents/Notices%20And%20Tenders/IRDAI-GUIDELINES.pdf)
- [https://www.meity.gov.in/writereaddata/files/Policy\\_on\\_use\\_of\\_IT%20resources\\_of\\_Government\\_of\\_India\\_0.pdf](https://www.meity.gov.in/writereaddata/files/Policy_on_use_of_IT%20resources_of_Government_of_India_0.pdf)
- [https://www.meity.gov.in/writereaddata/files/Password\\_Policy\\_1.pdf](https://www.meity.gov.in/writereaddata/files/Password_Policy_1.pdf)

**Notes:**

- 1. Suggested readings shall be updated and uploaded on the college website from time to time.**
- 2. Examination scheme and mode shall be prescribed by the Examination branch, University of Delhi from time to time.**