

DISCIPLINE SPECIFIC ELECTIVE COURSE – DSE 2A DATA PRIVACY

Course title & Code	Credits	Credit distribution of the course			Eligibility Criteria	Pre-requisite of the course (if any)
		Lecture	Tutorial	Practical/ Practice		
Data Privacy	4	3	0	1	Class XII Pass	NA

Learning Objectives

The course is designed to introduce privacy, social behavior, policy, professional practices and security issues in social networking systems.

Learning Outcomes

After completion of the course, students should be able to:

1. Identify and analyze data privacy-related security problems and quantifying the risks faced in computer systems and networks.
2. Understand the workings of the standard security mechanisms.
3. Understand
4. Introduce security management in the cloud.
5. Describe the important provisions of the Personal Data Protection Bill.

SYLLABUS OF DSE 2A

Unit 1 Introduction to Data Privacy (9 hours)

Data Life Cycle, Privacy concern in clouds, Protecting privacy, Privacy risk management, legal and Regulatory implications (IT Law), International law and Regulations.

Unit 2 Privacy in Network (12 hours)

Privacy concerns in networked technology, contextual influences on privacy attitudes and behaviors, Anonymity in the networked world, ethical problems posed by emerging social media technologies, basis of tracking social media.

Unit 3 Security Management in Cloud (12 hours)

Security Management Standards, Security Management in cloud, Availability Management, SAAS Availability Management, PAAS Availability Management, IAAS Availability Management, Access Control, Security Vulnerability, Patch and Configuration management, Geo Tagging.

Unit 4 Personal Data Protection Bill (12 hours)

3(29) Personal Data, 3(35) Sensitive Personal Data, Sections - 12, 13, 14, 16, 17, 69, 75, Offences (90-96).

Practical component

Practical exercises based on the syllabus.

Essential Readings

1. Tim Mather, Subra Kumaraswamy, Shahed Latif, Cloud Security and Privacy: An enterprise perspective on risks and compliance, O'Reilly, 2009.
2. www.meity.gov.in