



# Indraprastha College for Women

## University of Delhi

Course Name:	B. A. (Program)
Paper Title:	Data Privacy
Unique Paper Code:	2343010010
Semester:	V
Faculty(s):	Vimala Kumari
Year:	2025

Unit No.	Learning Objective	Lecture No.	Topics to be Covered
I	Introduction to Data Privacy	1	Introduction to Data Privacy
		2	Privacy Regulations
		3	Notion of data privacy
		4	Historical context of data privacy,
		5	Types of sensitive data (Part 1)
		6	Types of sensitive data (Part2)
		7	Privacy laws and regulations.
II	Data Privacy Attacks, Cryptography and Data Protection	8	Detailed Study of Data Privacy Techniques (Part 1)
		9	Detailed Study of Data Privacy Techniques (Part 2)
		10	Introduction to Data Privacy Attacks
		11	Types of Data Privacy Attacks (Part 1)
		12	Types of Data Privacy Attacks (Part 2)
		13	Introduction to Cryptography
		14	Introduction to Data Protection
		15	Requirement of Cryptography and Data Protection
		16	Introduction to Type of Attacks
		17	Data Breaches on Data Privacy
		18	Type of Attacks on Data Privacy
		19	Data Breaches on Data Privacy
		20	Impact of Data Breaches / Attacks
		21	Symmetric encryption

		22	Asymmetric encryption
		23	Introduction to Hashing
		24	Hashing and its Types
		25	Introduction to digital signatures
III	Understanding Data Collection, Use and Reuse	26	Data Collection, Use and Reuse:
		27	Harms Associated with Data collections,
		28	use and reuse
		29	Introduction to data anonymization,
		30	Data Anonymization
		31	Techniques for anonymizing data,
		32	Challenges in anonymizing data
IV	Understanding Ethical considerations in Data Privacy:	33	Ethical considerations in Data Privacy:
		34	Privacy and Surveillance,
		35	Ethics of Data Collection and Use,
		36	Bias and discrimination in data analysis
		37	Bias and discrimination in data analysis
		38	Revision

Unit	TOPICS
I	Introduction to Data Privacy and Privacy Regulations: Notion of data privacy, Historical context of data privacy, Types of sensitive data, Privacy laws and regulations.
II	Data Privacy Attacks, Cryptography and Data Protection: Type of Attacks/ Data Breaches on Data Privacy, Impact of Data Breaches / Attacks, Introduction to cryptography, Symmetric and asymmetric encryption, Hashing and digital signatures.
III	Data Collection, Use and Reuse: Harms Associated with Data collections, use and reuse, Introduction to data anonymization, Data Anonymization Techniques for anonymizing data, Challenges in anonymizing data
IV	Ethical considerations in Data Privacy: Privacy and Surveillance, Ethics of Data Collection and Use, Bias and discrimination in data analysis
<b>S. No.</b>	<b>Name of Authors/Books/Publishers</b>
1.	1. Ronald Leenes, Rosamunde van Brakel, and Serge Gutwirth: Data Protection and

	Privacy: The Age of Intelligent Machines, Hart Publishing, 2017.
2.	Naavi: Personal Data Protection Act of India (PDPA 2020): Be Aware, Be Ready and Be Compliant, Notion Press, 2020.
3.	Ravinder Kumar Gaurav Goyal, The Right to Privacy in India: Concept and Evolution, Publisher: Lightning Source, 2016
	<p><b>Additional References</b></p> <p>1. <a href="https://onlinecourses.nptel.ac.in/noc22_cs37/preview">https://onlinecourses.nptel.ac.in/noc22_cs37/preview</a></p> <p>2. <a href="https://www.coursera.org/learn/northeastern-data-privacy/home/info">https://www.coursera.org/learn/northeastern-data-privacy/home/info</a></p>

<b>Paper Components</b>			
<b>Credits</b>	<b>Lecture (L)</b>	<b>Tutorial (T)</b>	<b>Practical (P)</b>
<b>6</b>	<b>4</b>	<b>0</b>	<b>2</b>
<b>Assessment Scheme</b>			
<b>S. No.</b>	<b>Component</b>	<b>Marking Scheme</b>	<b>Total Marks</b>
1	Internal Assessment <ul style="list-style-type: none"> <li>● Assignment/Quiz/Project/Presentation</li> <li>● Class Test</li> <li>● Attendance</li> </ul>		30
		12	
		12	
		6	
2.	Practical <ul style="list-style-type: none"> <li>● Continuous Assessment</li> <li>● End Term Written/Practical Exam</li> <li>● Viva</li> </ul>		50
		20	
		20	
		10	
3.	End Semester Examination		90