

Curriculum Planner

B.A. (Programming) Vth Semester

Department of Computer Science

DISCIPLINE SPECIFIC CORE/ GE: Data Privacy

Name of the Teacher: - Dr. Dharmendera Kumar Meena

Topic	Month	Ch(s) and Section(s)	Ref(s)
Introduction to Data Privacy and Privacy Regulations: <ul style="list-style-type: none"> • Notion of data privacy, • Historical context of data privacy, • Types of sensitive data, • Privacy laws and regulations. 	August 2024	Ch-1 upto Sec 1.2 Ch-1 upto pg 8 Ch-2: 2.1 upto pg 33, Ch 3: 3.4, Ch 14: 14.1-14.4 Ref [5] complete	[3] [4] [2] [5]
Data Privacy Attacks, Cryptography and Data Protection: <ul style="list-style-type: none"> • Type of Attacks/ Data Breaches on Data Privacy, • Impact of Data Breaches /Attacks, • Introduction to cryptography, • Symmetric and asymmetric encryption, • Hashing and digital signatures • Class Test-1. 	September 2024	Ch-1 till Sec 1.11	[2]
Data Collection, Use and Reuse: <ul style="list-style-type: none"> • Harms Associated with Data collections, use and reuse, • Introduction to dataanonymization, • Data Anonymization Techniques for anonymizing data, • Challenges in anonymizing Data • Class Test-2 	October 2024	Ch-3: Sec II Ch-1: Section 1.4-1.7	[1] [3]
Ethical considerations in DataPrivacy: <ul style="list-style-type: none"> • Privacy and Surveillance, • Ethics of Data Collection andUse, • Bias and discrimination in dataanalysis • Revision, Doubt solving, Mock Practical 	November 2024	Ch-3: Sec III, IV	[1]

References:

1. Ronald Leenes, Rosamunde van Brakel, and Serge Gutwirth: *Data Protection and Privacy: The Age of Intelligent Machines*, Hart Publishing, 2017.
2. Stallings, William. *Information privacy engineering and privacy by design: Understanding privacy threats, technology, and regulations based on standards and best practices*. Addison-Wesley Professional, 2019.
3. Venkataramanan, Nataraj, and Ashwin Shiram. *Data privacy: principles and practice*. Chapman and Hall/CRC, 2016.
4. Jarmul, Katharine. *Practical Data Privacy*. " O'Reilly Media, Inc.", 2023.

Additional References

5. THE DIGITAL PERSONAL DATA PROTECTION ACT, 2023
(<https://www.meity.gov.in/writereaddata/files/Digital%20Personal%20Data%20Protection%20Act%202023.pdf>)
6. Ravinder Kumar Gaurav Goyal, *The Right to Privacy in India: Concept and Evolution*, Publisher: Lightning Source, 2016.
7. https://onlinecourses.nptel.ac.in/noc22_cs37/preview
8. <https://www.coursera.org/learn/northeastern-data-privacy/home/info>
9. Naavi: *Personal Data Protection Act of India (PDPA 2020): Be Aware, Be Ready and Be Compliant*, Notion Press, 2020.