

## 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)
<b>Introduction to Data Privacy and Privacy Regulations:</b> <ul style="list-style-type: none"> <li>• Notion of data privacy,</li> <li>• Historical context of data privacy,</li> <li>• Types of sensitive data,</li> <li>• Privacy laws and regulations.</li> </ul>	August 2024	Ch-1 upto Sec 1.2	[3]
		Ch-1 upto pg 8	[4]
		Ch-2: 2.1 upto pg 33, Ch 3: 3.4, Ch 14: 14.1-14.4	[2]
		Ref [5] complete	[5]
<b>Data Privacy Attacks, Cryptography and Data Protection:</b> <ul style="list-style-type: none"> <li>• Type of Attacks/ Data Breaches on Data Privacy,</li> <li>• Impact of Data Breaches / Attacks,</li> <li>• Introduction to cryptography,</li> <li>• Symmetric and asymmetric encryption,</li> <li>• Hashing and digital signatures.</li> </ul>	September 2024	Ch-1 till Sec 1.11	[2]
<b>Data Collection, Use and Reuse:</b> <ul style="list-style-type: none"> <li>• Harms Associated with Data collections, use and reuse,</li> <li>• Introduction to data anonymization,</li> <li>• Data Anonymization Techniques for anonymizing data,</li> <li>• Challenges in anonymizing data</li> </ul>	October 2024	Ch-3: Sec II	[1]
		Ch-1: Section 1.4-1.7	[3]
<b>Ethical considerations in Data Privacy:</b> <ul style="list-style-type: none"> <li>• Privacy and Surveillance,</li> <li>• Ethics of Data Collection and Use,</li> <li>• Bias and discrimination in data analysis</li> </ul>	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 Shriram. *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/wfitefeaddata/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](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.