

# Curriculum Planner (Department of Computer Science)

**Course:** GE 3

**Semester:** III

**Paper:** Database Management Systems

**Teacher Name: -** Dr. Vandana Gupta / Dr. Sushil Malik

S. No.	Topics	Chapter	Ref	Schedule(Approximate)
1	Unit 1 - Introduction to Database	<b>Chapter 1</b> 1.1-1.6, 1.8 <b>Chapter 2</b> 2.1-2.2, 2.3.1, 2.4.1	[1]	August 2023
2	Unit 2 - Entity Relationship Modelling	<b>Chapter 3</b> 3.1-3.7.3	[1]	September 2023/ October 2023
3	Unit 3 - Relational Data Model	<b>Chapter 5</b> 5.1-5.3.3 (excluding 5.2.5) <b>Chapter 8</b> 8.1, 8.2.2, 8.3.1	[1]	
4	Unit 4 – Structured Query Language (SQL)	<b>Chapter 6</b> 6.1–6.4 (excluding set operations) <b>Chapter 7</b> 7.1.1, 7.1.5, 7.1.7, 7.1.8, 7.3.1-7.3.2, 7.4	[1]	September 2023/ October 2023
5	Unit 5 - Database Design	<b>Chapter 9</b> 9.1 (excluding Mapping of N-aryRelationship Types) <b>Chapter 14</b> 14.1-14.3 <b>Chapter 15</b> 15.1.1 (only Armstrong' Axioms without proof and the Closure of X underF to find the primary key)	[1]	November2023

## Essential/recommended readings

- 1.Elmasri, R., Navathe, B. S., *Fundamentals of Database Systems*, 7<sup>th</sup> Edition, Pearson Education, 2016.
- 2.Murach J., *Murach's MySQL*, 3<sup>rd</sup> Edition, Pearson, 2019.

## Additional References

1. Connolly T. M., Begg C. E. *Database Systems: A Practical Approach to Design, Implementation, and Management*, 6<sup>th</sup> edition, Pearson, 2019.
2. Ramakrishnan R., Gehrke J. *Database Management Systems*, 3<sup>rd</sup> Edition, McGraw-Hill, 2014.
3. Silberschatz A., Korth H.F., Sudarshan S. *Database System Concepts*, 7<sup>th</sup> Edition, McGraw Hill, 2019.