

Teaching Plan (January-April, 2022)

Name of Faculty : **Dr Roli Bansal**
 Title of the Paper : **Database Management Systems**

Course: **B.Sc. (H) CompSc Semester IV A**
 Unique Paper Code : 32341403

Chapter Name	[Ref.]: Chapter No.	Practicals Covered	Month	Tentative Assessment Schedule
Databases and Database Users Database System Concepts and Architecture Data Modeling Using Entity-Relationship (ER) Data Modeling using Enhanced Entity Relationship (EER) Model	[1]: 1 [1]: 2 [1]: 3 (except 3.8) [1]: 4 (4.1 to 4.4)	Introduction to SQL SQL: Schema Definition, Constraints, Queries	January	Assignment I: Class Presentations
The Relational Data Model and Relational Database Constraints Relational Algebra SQL: Schema Definition, Constraints, Queries	[1]: 5 [1]: 8(8.1 to 8.5) [1]: 6, 7 (7.1, 7.3, 7.4)	Nested Queries on different databases	February	Assignment I: Class Presentations Contd...
Relational Database Design by ER and EER to Relational Database Mapping Basics of Functional Dependencies and Normalization for Relational Databases Indexing Structures for Files (Excluding Algorithms)	[1]: 9 [1]: 14(14.1 to 14.5), 15(only 15.1) [1]: 17 (17.1 to 17.3)	Working on Database Project	March	Assignment II Submission due on 15/3/2022
Introduction to Transaction Processing, Concepts and Theory	[1]: 20 (20.1 to 20.3)	Project presentations	April	Assignment III, Submission due on 15/04/2022
Mid Sem Break: 17th March (Thursday) 2022 to 20th March 2022 (Sunday) Dispersal of Classes and Practical Examination: 28th April 2022 (Thursday) Theory Examination: 9th May 2022 (Monday) Summer Break: 24th May (Tuesday) 2021 to 19th July 2022 (Tuesday)				

References

[1] R. Elmasri, S.B. Navathe, Fundamentals of Database Systems (7th Edition), Pearson Education.

Additional Resources

1. Date, C. J. (2004). An Introduction to database systems. 8th edition. Pearson Education. 2. Silberschatz, A., Korth, H. F., & Sudarshan, S. (2010). Database System Concepts. 6th edition. McGrawHill
2. Silberschatz, A., Korth, H. F., & Sudarshan, S. (2010). Database System Concepts. 6th edition. McGrawHill