BCSE302P	Database Systems Lab	L	Т		Р	С
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Pre-requisite		Sylla	bus	V	ers	ion
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Course Objectives

- 1. Basic ability to understand the concepts of File system and structure of the database; Designing an Entity-Relationship model for a real-life application and Mapping a database schema from the ER model.
- 2. Differentiate various normal forms, evaluate relational schemas for design qualities and optimize a query.
- 3. Explain the working methodologies of transaction management and give a solution during a transaction failure. Understand the basic concepts on concurrency control, recovery, indexing, access methods and fundamental view on unstructured data and its management.

Course Outcome

On completion of this course, student should be able to:

- 1. Design the structure and operation of the relational data model.
- 2. Examine the data requirements of the real world and design a database management system.

Ind	licative Experiments								
1.	Data Definition and Data Manipulation Language								
2.	Constraints								
3.	Single row functions								
4.	Operators and group functions								
5.	Sub query, views and joins								
6.	High Level Language Extensions - Procedures, Functions, Cursors and Triggers								
Total Laboratory Hours 30 hours									
Text Book									
1.	R. Elmasri & S. B. Navathe, Fundamentals of Database Systems, Addison Wesley, 7 th								
	Edition, 2016								
Reference Books									
1.	1. A. Silberschatz, H. F. Korth & S. Sudarshan, Database System Concepts, McGraw Hill,								
	7 th Edition 2019.								
2.	Raghu Ramakrishnan, Database Management Systems, Mcgraw-Hill, 4 th Edition, 2018								
3.	C.J.Date, A.Kannan, S.Swamynathan," An Introduction to Database Systems", Pearson,								
	Eighth Edition, 2006.								
4.	Gerardus Blokdyk, NoSQL Databases A Complete Guide, 5STARCooks, 2021								
Мо	de of assessment: Continuous asse	ssments, FA	Γ						
Re	Recommended by Board of Studies 04-03-2022								
App	proved by Academic Council	No. 65	Date	17-03-2022					
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