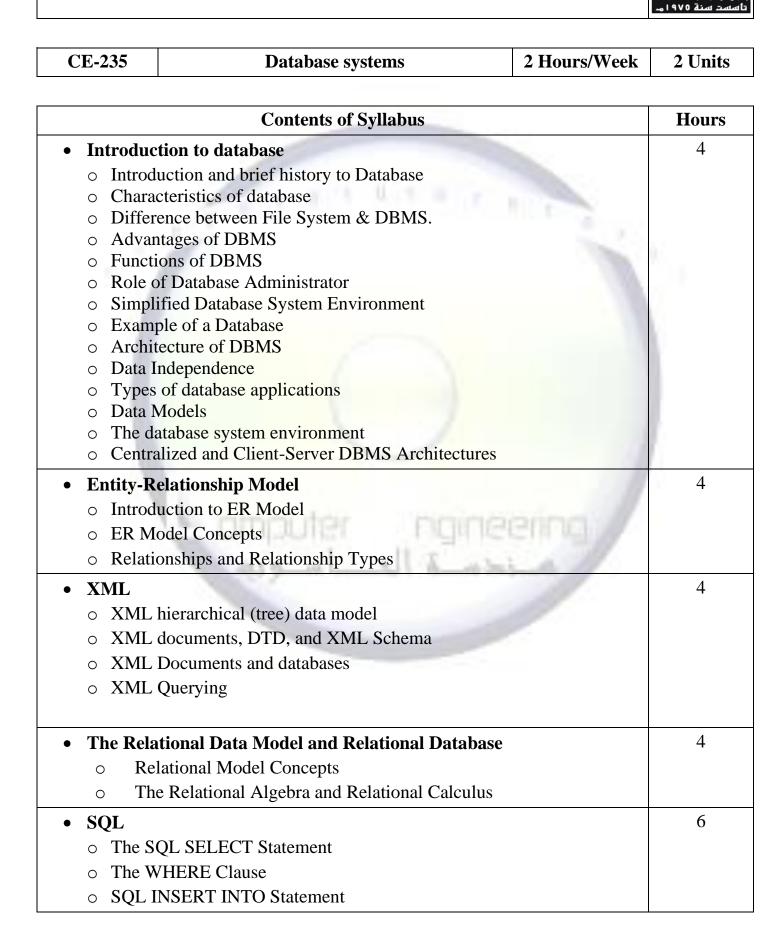
## University of Technology

## **Computer Engineering Department**

Academic Year 2023 - 2024

Second Year – Second Semester – IT and Network Branches



0	SQL UPDATE Statement	
0	SQL DELETE Statement	
0	SQL TOP Clause	
0	SQL LIKE Operator	
0	SQL Joins	
0	SQL UNION Operator	
0	SQL SELECT INTO Statement	
0	SQL CREATE DATABASE Statement	
0	SQL Constraints	
0	SQL ALTER TABLE Statement	
0	SQL Views	
0	SQL Date Functions	
• D	atabase design	6
0	Informal Design Guidelines for Relation Schemas	
0	Functional Dependencies	
0	Normal Forms Based on Primary Keys	8
0	General Definitions of Second and Third Normal Forms	
0	Boyce-Codd Normal Form.	9
0	Fourth Normal Form	0
0	Fifth Normal Form	
• T	ransaction Management	4
0	Introduction to transaction processing	
0	Transaction and system concepts	
0	Desirable properties of transactions	
0	Transaction support in SQL	

## References

• Fundamentals of Database Systems, 5<sup>th</sup> edition, Ramez Elmasri and Shamkant B. Navathe, 2007.

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