

ACADEMIC YEAR	2020-2021		
Course Code & Title	INTE205 Fundamentals of Databases		
Credit hours	3	Level of study	Undergraduate- year 2
College / Centre	COBA		
Co-requisites		Pre-requisites	INTE101

1. COURSE OUTLINE

[This is an introductory course focus on delivering the basic concepts and theory of database architecture and database models. The course explores related topics including database design and development, data model, query language, and normalization process. MS access and/or MYSQL will be used for practical means.]

2. AIMS

[The course aims to equip the students with the appropriate knowledge that is needed to understand the databases and their applications.]

3. LEARNING OUTCOMES, TEACHING, LEARNING ,ASSESSMENT METHODS , and Graduate Attributes Mapping

Learning Outcomes (Definitive)	Teaching and Learning methods (Indicative)	Assessment (Indicative)	Graduate Attributes Mapping
Upon successful completion of this course, students will be able to:			
1. Demonstrate an appropriate description and explanation of the databases architecture	e.g., lectures, online videos tutorials and seminars, online group discussions using LMS, independent readings, individual or group work, presentation.	e.g., tests, assignments, individual or group project, participation	Knowledge of a discipline.
2. Formulate SQL queries to create and maintain databases, and manipulate and retrieve data	e.g., lectures, online videos tutorials and seminars, online group discussions using LMS, independent readings, individual or group work, presentation.	e.g., tests, assignments, individual or group project, participation	Knowledge of a discipline.
3. Describe how the database approach helps to eliminate short coming of traditional file system.	e.g., lectures, online videos tutorials and seminars, online group discussions using LMS, independent readings, individual or group work, presentation.	e.g., tests, assignments, individual or group project, participation	Knowledge of a discipline.
4. Design the data model to examine the	e.g., lectures, online videos tutorials and	e.g., tests, assignments,	Knowledge of a discipline.

TOTAL HOURS	48
Plus RECOMMENDED INDEPENDENT STUDY HOURS	
TOTAL COURSE HOURS	48

7. RECOMMENDED READING

Core text/s:

1. Coronel, C. and Morris, S., 2016. *Database systems: design, implementation, & management*. Cengage Learning.
2. Özsu, M.T. and Valduriez, P., 2011. *Principles of distributed database systems*. Springer Science & Business Media.
3. Ambler, S., 2012. *Agile database techniques: Effective strategies for the agile software developer*. John Wiley & Sons.
4. Any other reading or online reading resources seen appropriate by the instructor>>

**Library + online resources: ASU library
ASU online resources (ProQuest and ebrary)
Sultan Qaboos University Library (by agreement)**