Database Course Outline

Lecture 1
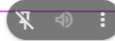
Course Details

Database Management (Info. Mgt.)

BCS211L-OCb/ACT211L-OAa

3 Units / 5hrs.

(2 Hours Lecture; 3 Hours Lab)

1st Sem, A/Y 2025-26

For 2nd Year Students

Course Description

       This course focuses on the fundamental concepts, design, and implementation of databases as well as the use of database management systems.

       Discussions and activities in this course involve topics about data modeling, relational schema and Structured Query Language (SQL).

       The main goal of this course is to let students develop and submit an application supported by a database and utilizing a database management system.

Course Outcomes

After completion of the course, the student should be able to:

1. Apply the fundamental concepts of databases and database systems.
2. Design correct data model out of identified business rules and properly transform it to its equivalent relational schema.
3. Build an application that uses a database and a database management system.

Relational Schema
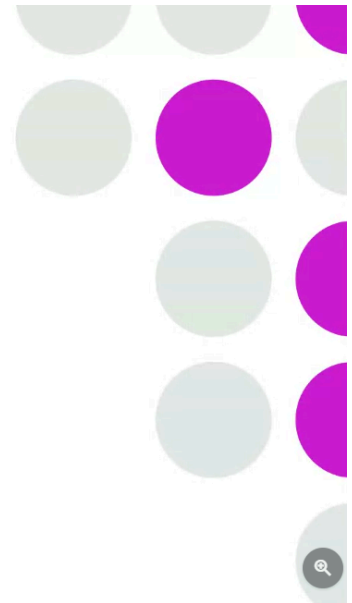
Course Coverage

PRELIM

- INTRODUCTION TO DATABASE AND DBMS
- DATABASE DEVELOPMENT PROCESS
- ENTERPRISE MODELING

Course Coverage

MIDTERM

- CONCEPTUAL DATA MODELING
- LOGICAL DATABASE DESIGN
- PHYSICAL DATABASE DESIGN

Course Coverage

SEMIS-FINALS

- STRUCTURED QUERY LANGUAGE (SQL)
- Intermediate SQL
- Development of a Database-Driven Application

PROJECTS

PRE-FINAL ASSESSMENT

- Documentation and Presentation of ER Model and Prototype Designs of proposed Program Project Solution

FINAL ASSESSMENT

- Finalization and Presentation of Program/Project Solution w/ Source Code

| DE GUZMAN | 3032 | ACT211L-OAa | Database Management (Info Mgt) 1 | 3 | 06:00PM-08:00PM | T | VR6 | JH-23 | meet.google.com/epd-ezte-qau |
| | 3114 | BCS211L-OCb | Database Management (Info Mgt) 1 | 3 | | T | JH-23 | | |

ONLINE CLASSES
- can stay at Home or anywhere with INTERNET CONNECTION
- If you prefer to be in the campus, stay at the designated rooms so you can have the device and internet

ATTENDANCE will be strictly monitored.
- Only 20% of the Total Class Hours (Excused/Unexcused absences) is allowed
- Make it a habit to report to class on-time, whether it is online or F2F.

JOIN GOOGLE CLASSROOM
- Stay updated from the announcements of your teachers

Google Classroom Class Codes

ACT211L-OAa   :   kwfaoren

BCS211L-OCb   :   i24z2n3d

LIST OF RESOURCES

	TEXTBOOKS			
	TITLE	AUTHOR/S	ISBN	PUBLICATION YEAR
TB1	Learn JavaFX 17: Building User Experience and Interfaces with Java	Kishori Sharan, Peter Späth	9781484278482	2022
TB2	JavaFX Essentials	Mohamed Taman	978-1-78439-802-6	2015
TB3	MYSQL CRASH COURSE	Rick Silva	978-1-7185-0300-7	2023
TB4	Concept Of Database Management System by Pearson	Shefali Naik	9789332526280	2024
TB5	MySQL for Beginners: A Complete Training	Najib Abdallah		2023

	ONLINE RESOURCES			
	TITLE	AUTHOR/S	LINK	PUBLICATION YEAR
OR1	MYSQL CRASH COURSE	Rick Silva	https://learning.oreilly.com/library/view/mysql-crash-course/9781098156824/f03.xhtml	2023
OR2	Getting Started with JavaFX	Oracle	https://docs.oracle.com/javafx/2/get_started/jfxpub-get_started.htm	2013
OR3	The Java™ Tutorials	Oracle	https://docs.oracle.com/javase/tutorial/tutorialLearningPaths.html	2022
OR4	Java Tutorial	GeeksforGeeks	https://www.geeksforgeeks.org/java/?ref=lbp	2024

CRITERIA FOR GRADING

COURSE OUTCOME #	ASSESSMENTS	WEIGHT Midterm (40%)	WEIGHT Final (60 %)	MINIMUM PASSING %
CO 1	Objective-Type Quizzes	10%		60%
CO 1	Discussion Boards	10%		60%
CO 2	ERD and RS Model	25%		60%
CO 2	Physical Database Design	25%		60%
CO 2	Midterm Exam Assessment	30%		60%
CO 3	Objective-Type Quizzes		10%	60%
CO 3	Discussion Boards		10%	60%
CO 3	Coding Activities		25%	60%
CO 3	Documentation and Proposal Document		25%	60%
CO 3	Final Implementation of Database Project		30%	60%
	TOTAL	100%	100%	

GRADING SCALE

Percentage Grade	Equivalent Grade
99 - 100	1.00
96 - 98	1.25
93 - 95	1.50
90 - 92	1.75
87 - 89	2.00
84 - 86	2.25
81 - 83	2.50

ASYNCHRONOUS SESSION

Saturday Schedule (To be announced)

Manage your time

Meet with your Study Group Consult if you are having

difficulties

CONSULTATION TIME

10-11AM Saturdays

Facebook GC:
**https://m.me/j/AbbI3Oi5nHg1OYhU/**

Email: jake.deguzman@unc.edu.ph

Study Groups

- The class shall be organized into small study groups in order to facilitate learning and collaboration.
- Maximum of three (3-5) members in each study group.
- Help one another in accomplishing the outputs.
- Monitor and report progress to instructor.
- Group is to be announced once final class list is available.

Software

- Diagraming Software
  - DIA Software
  - Draw.io
- Database Management and SQL Editor
  - MySQL Workbench
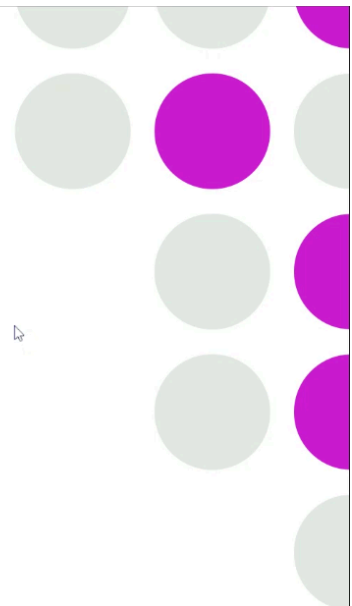
Task for Today

- Watch in advance the video lesson posted in google classroom about Introduction to Database Management Systems.
- Answer Discussion Board No. 1.
- Class interaction and short quiz shall be given next meeting.