Central University

Course Outline

Course Title	Database Management System
Course Code	**ITEC** 204
Overall Course Aim(s)	Introduce Students to Database Concepts

- **Teaching Methods**
- Assigned Readings
- Practical Sessions
- Lectures
- Research Assignments

Contact

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Course Information

Course Description Understand the fundamental principles in the design of Database systems

COMP 205 Database Concept 1

The original stimulus for this course came from an individual work in industry, providing consultancy on database design for new software systems or, as often as not, resolving inadequacies with existing systems. In addition, the objectives of this course, therefore, are to provide a knowledge that introduces the theory behind databases as clearly as possible and, in particular, to provide a methodology for database design that can be used by both technical and nontechnical readers.

Indicative Content

A. Acquire an understanding of Database Concepts
B. Carry Out Basic database system task
C. Acquire more hands on capabilities of debugging database issues.

Learning Outcomes

Learning Objectives

Upon the completion of this course, the student is expected to be able to carry out basic system and concepts of operating systems such as:

- Understand the concepts of Database systems
- Understand the structures of Database Systems
- Be able to explain concepts in database
- Proficient in Database management and administration
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Resources:

Prescribed Textbooks

a. Reading
b. Connolly, T. M., &Begg, C. E. (2014). *Database Systems: A Practical Approach to Design, Implementation and Management. (6th ed.).* London: Addison Wesley.

c. Churcher, C. (2012). *Beginning Database Design.* (2nd ed.). New York, NY: A press.
d. Any Good book on Database Concepts

Summative Assessment

Assessment

Type	Weighting	Week
Attendance	10%	
Weekly Tests	10%	
Mid-Sem Test/Presentations	20%	
Final Examination	60%	
Total	**100%**	

Period	Topic/Lecture content	Assignments
Week 1	**Introduction**: Introduction database management, Database Job prospect, professional practice etc.	N/A
Week 2	Data Models	Class Assignment
Week 3 & 4	The Relational Database Model	Write a brief report on a selected topic
Week 5	Entity Relational Modelling and Advance Data Modelling	Assignment

Week 6 & 7	Normalization of Database	Assignment
Week 8	Introduction to Structured Query Language (SQL)	N/A
Week 9	Mid-Semester Exam/Presentations	Presentations
Week 10 & 11	Practical Database Design and Implementation using Microsoft SQL server.	Presentation
Week 12	Distributed Database Management System	Assignment