

# University of Education, Winneba

Department of Introduction to Information and Communications Technology



## Hybrid Course Manual

**Course Title:** Introduction to Database Management Systems

**Course Code:** ICT 364

**Department:** Information and Communication Technology

**University:** University of Education, Winneba

**Lecturer:** Prof. Issifu Yidana (PhD)

**Level:** 300

**Prepared By:** Benedict Amankwa Osei (Index No: 5231570098)

**Group:** 3

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### Course Overview

This hybrid course introduces students to database systems and develops skills in designing, creating, managing, and querying relational databases. It combines **face-to-face lectures and labs** with **online learning activities**, ensuring flexibility and individual support despite the large class size. Students will use tools like Microsoft Access or MySQL both in the classroom and through guided online modules.

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### Course Objectives

Upon completing this course, students will:

- Understand foundational database concepts and terminologies.
  - Design and implement normalized relational databases.
  - Administer databases using industry-standard tools.
  - Execute SQL queries for data retrieval and manipulation.
  - Use forms and reports for effective data input/output.
  - Manage data integrity, security, and backup procedures.
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### Student Learning Outcomes

By the end of the course, students will be able to:

- Define and explain database components: tables, queries, forms, reports.

- Normalize tables to reduce redundancy.
  - Build and manage databases using MS Access or MySQL.
  - Perform CRUD operations using SQL.
  - Develop data entry forms and generate professional reports.
  - Ensure proper data management practices and backup strategies.
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### Delivery Mode (Hybrid Structure)

The course will be delivered using a **blended learning approach**:

- **Face-to-Face (40%)**
    - Weekly lectures to explain key concepts.
    - Hands-on lab sessions to practice database design.
    - In-person mid-semester review and final exam.
  - **Online (60%)**
    - Pre-recorded video tutorials on SQL and DBMS tools.
    - Quizzes, assignments, and discussions via LMS (e.g., Moodle/Google Classroom).
    - Online collaboration through forums and group projects.
    - Virtual consultations for individual support.
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### Assessment Overview

Assessment Type	Weight	Delivery Mode
Assignments	20%	Online submission via LMS
Practical Projects	30%	Hybrid (develop online, present in class)
Quizzes	10%	Online
Mid-Semester Exam	20%	Face-to-Face

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Assessment Type	Weight	Delivery Mode
Final Exam	20%	Face-to-Face

## Weekly Course Structure

### Week Delivery Mode Activities

1	F2F	Introduction to Databases & Course Orientation
2	Online	Video: DB Terminology + Forum Discussion
3	F2F	Lab: Designing Relational Databases
4	Online	Quiz + Activity on Table Relationships
5	Online	Tutorial: Introduction to SQL (CREATE, INSERT, SELECT)
6	F2F	Mid-Semester Review & Practical Feedback
7	Online	Video: Advanced SQL Queries + Practice Quiz
8	F2F	Lab: Forms and Data Entry Interfaces
9	Online	Online Project Work (Reports & Visualization)
10	Online	Backup & Security Case Study
11	F2F	Group Project Presentations
12	Online	Final Project Submission via LMS
13	F2F	Final Exam & Course Wrap-up

## Required Materials

- A computer with MS Access or MySQL installed.
- Stable internet connection.
- Access to cloud storage (Google Drive / OneDrive).
- Online LMS account (Moodle/Google Classroom).

- A SQL reference/cheat sheet.
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### **Student Support**

- **Discussion Forums:** Peer-to-peer support and Q&A.
  - **Email/Chat Support:** Quick clarifications from the lecturer.
  - **Virtual Office Hours (Zoom/Teams):** Weekly online help sessions.
  - **Feedback System:** Regular feedback on assignments and quizzes.
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