Database Concepts Database Concepts Introduction 1

Course Outline

- Duration 1 Semester (12 Weeks)
- Credits 5
- Lectures 2 hours per week
- Practical 2 hours per week
- Directed learning 12 hours
- Independent learning 40 hours

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Course Material

 Course material will be made available on X:\ drive

(X:\Lab\C WOODS\DBConcepts_CP\...)

 Supplement course material with reading from recommended texts and/or Internet

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Course Content

- Databases and Database Users
- History of Databases
 - Paper-based systems
 - File-based systems
 - Relational database systems
- Data Models
 - Network / Hierarchical / Relational
- The relational Data Model

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Database Programming

- SQL
- Interactive Vs. Embedded SQL
- Database Concepts & Architectures
 - Database Architectures
 - Data and Structural Independence
- Database Design
 - ER Modelling
 - Relational Schema / Database Schema
 - Normalisation

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- DBMS Functions
- Database Administration

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Reading Material

• Database Systems

Rob, Coronel, Crockett

Introduction to Database Systems

C.J. Date

Database Management Systems

Cengage Learning-Fasttrack series

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Other Material

- · Useful web links will be provided
- Google! There is lots of useful material on the web

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Assessments

Continuous Assessment (CA) - 50%

- Written Assessment 10%
 - SQL
- Out of class assignment 20%
 - Data Modelling/Relational Schema
 - Normalisation
 - Database Schema
- Lab Assignment 20%
 - Oracle
 - Scripting

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Assessment Dates

Assignment	Date
Assignment 01: In class	Monday 20th October 2014
Assignment 02: Out of class	Sunday 23 rd November 2014
Assignment 03: Lab Assessment	Week beginning 1st December 2014

CA - Absence/Late Submissions

- Penalties apply 20% deduction for each day late (week day).
- Medical certification, if applicable, <u>must</u> be submitted within one week in case of late submission

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Final Examination (FE) - 50%

- 2 hour examination
- Paper contains 4 questions
- Answer any three questions
- All questions carry equal marks

Important!

- Module pass rate: 40%
- Students <u>must</u> achieve 25% in Final Examination regardless of CA mark.

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