Description: Database Systems

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Academic group: FOSCI
Academic org: FOS003
Student contribution band: 2
ASCED code: 020303

STAFFING

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OTHER REQUISITES

Recommended Pre-requisite: MAT1101 and CSC2401 and CSC2407 and CSC2408

RATIONALE

The key component of information systems is database management systems. These are widely used in scientific, business, government, and industrial organisations. It is important for a computing professional to understand the basic concepts of database systems, to be proficient in database query languages, and to know the design principles of database systems.

SYNOPSIS

This course covers the fundamental issues of the relational model, relational languages, database design and query processing. It starts with a structured overview of database systems, their history and application. The relational model is then covered in detail. Relational languages such as the relational algebra and calculus are discussed before introducing the SQL language. Then we cover the Entity-Relationship model and discuss how ER diagrams are translated to the relational model. Topics on database design principles in this course further include functional dependencies. Students will gain a good understanding of database design theory and principles and be able to develop database systems and application programs on a DBMS.

OBJECTIVES

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TOPICS
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TEXT and MATERIALS required to be PURCHASED or ACCESSED
This information will be available from 15-06-2007

REFERENCE MATERIALS
This information will be available from 15-06-2007

STUDENT WORKLOAD REQUIREMENTS
This information will be available from 15-06-2007

ASSESSMENT DETAILS
This information will be available from 15-06-2007

IMPORTANT ASSESSMENT INFORMATION
This information will be available from 15-06-2007

ASSESSMENT NOTES
This information will be available from 15-06-2007

OTHER REQUIREMENTS
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