**CSC 2111 Database Management Systems I**

(a) Description

The course is provide students with a strong foundation in system- atic approaches to design and implementation of database applications. Preliminarily operations like requirements gathering and database plan- ning will be covered. The course will also introduce students to devel- oping of application programs that talk to the database. These appli- cations may be online or off line.

(b) Aims

The aims of the course are to:

*•* Provide a background for the evolution of database (management)

Systems

*•* Provide the students with the steps one has to go through when developing good database applications

*•* Give hand on experience and knowledge in developing database

(Driven) applications

(c) Teaching and Learning patterns

Teaching will be by lectures, take home reading assignments/class pre- sensations and laboratory practicals

(d) Indicative content

*•* Background to databases

*•* Evolution of database systems

*•* Database organization and architecture

*•* Database models

*•* The database development life cycle

*•* Database design

*•* Tuning of operational systems

*•* Querying databases

*•* SQL/PL SQL

*•* Scripting

(e) Assessment Methods

Assessment will be in terms of tests and take home assignments (40%), A practical examination (30%) and a final written exam (30%)

(f ) Reading list

(i) Thomas Connolly and Carolyn Begg: Database Systems: A Prac- tical Approach to Design, Implementation and Management. 2nd Edition, Addison-Wesley, 2004.