Faculty of Computer Studies

T175 B: Networked living: exploring information and communication technologies (Part B)

Course Guide

T175B: Networked living: exploring information and communication technologies (Part B)

Credit Points / Credit Hours: 15 / 4

Pre-Requisites:

T175A

Short Description:

This course explores three contexts in which ICTs are becoming increasingly important. The student will look at the systems and concepts which arise in these contexts: for example, usability of e-government web sites, databases in the health service, communication systems in road networks. By looking at ICTs in three different contexts, this course will help the student consolidate his knowledge of ICTs.

Block 3:

As part of this block students will use spreadsheets to create some simple models.

Block 4:

Part 1 of the course i.e. Health focuses on ICT systems in the health service and in a wider global context. Examples range from databases in the health service, through tele-medicine to communication systems which might improve health for people in the third world.

In Part 2 of the course i.e. Road Transport looks at how ICTs can help improve transport systems - in particular road transport. It looks at systems for communicating traffic conditions, for improving car safety and for monitoring road use.

Part 3 of the course i.e. E-government considers initiatives to use the web and other communication systems to improve the interaction between government and people. It covers topics such as web site usability, identification systems and government databases.

Aims:

The aims of this course are:

- to help the student develop an understanding of how ICTs work, and the principles behind them;
- to show how ICTs are used in Health, transport and government, and their effects on our lives;

- to prepare the student for further academic study by helping him develop his study skills.

Learning Outcomes:

The learning outcomes for this course are given below:

A. Knowledge and understanding of:

A1. terminology related to ICTs, and using it appropriately.
A2. concepts, processes and techniques associated with ICTs.
A3. how ICTs are used in Health, transport and government and for different purposes.
A4 .developments in ICTs and the implications of these developments.
A5. social issues raised by ICTs.

B. Cognitive skills:

After studying the course, the student will be able to:

B1. Analyse and interpret aspects of ICTs and their contexts.
B2. Apply ICT concepts in new situations.

C. Key skills:

After studying the course, the student will be able to:

C1. Use a range of resources to help you develop as an independent learner.
C2. Develop the student's skills in and analyzing and evaluating ICT systems.

A. Practical and professional skills:

After studying the course, the student will be able to:

D1. Use spreadsheets to create models and solve problems.
D2. Develop the student's skills in working collaboratively with others using computer-mediated communication.
D3. Develop the student's skills in applying ICTs in Health, transport and government.

Course Structure:

This course includes one Block i.e. Block 4 Health, transport and government. This block explores three contexts in which ICTs are becoming increasingly important.

Table of Contents:

Course assessment:

- Tutor-marked assignments: 2 TMAs
- Quiz/Mid-term Assessment: 1 MTA
- Final Exam: 1 Final Exam

Grade Distribution:

- Tutor-marked assignments: 35%
- Quiz/MTA: 15%
- Final Exam: 50%

Course Calendar (Indicative Version):

There are 2 Tutor Marked Assignments (TMAs), 1 Midterm Assessment (MTA) and 1 Final Exam associated with this course. Course result is determined on the basis of student's scores in TMAs, Midterm Assessment and the Final Exam. To be sure of passing the course, the student needs to score at least 40% (at least 20% in TMA and Quiz/MTA and at least 20% in the final exam) in the above 3 components and achieve an overall average score of 50%.

Week no.	Week start date	Material to be covered	Assignments / Assessments
1	10/2/2009	Block 3: Part 3 (1 to 5)	
3	24/2/2009	Block 4: Part1 (1 to 3.2)	
5	10/3/2009	Block 4: Part1 (3.3 to 5)	
7	24/3/2009	Block 4 : Part2 (1 to 3)	
9	7/4/2009	Block 4: Part2 (4 to 6)	TMA01 due date Quiz/MTA
11	21/4/2009	Block 4: Part3 (1 to 3)	
13	5/5/2009	Block 4: Part3 (4)	
15	19/5/2009	Block 4: Part3 (5 to 6)	TMA02 due date
16	8-19/6/2009	Final Exam Period: To be Announced	