



Faculty of Computer Studies

T209 A: ICTs: People and Interactions (Part A)

Course Guide

T209A: ICTs: People and Interactions (Part A)

Credit Points/ Credit Hours: 30/8

Pre-Requisites:

T171 or its replacement course T175

Short Description:

This course deals with Information and Communication Technologies (ICTs). Students are introduced to the concepts of communication systems and computer networks. Students also study about signal processing systems such as speech processing and voice recognition systems.

Aims:

The aims of this course are:

- To introduce students to communication systems.
- To introduce students to personal computing devices such as PDAs and handheld computers.
- To introduce the ideas and historical context of HTI.
- To introduce students to concepts and ideas of digital signal processing.
- To enable students to understand how computers can be connected in local area networks, and how access is provided to the Internet.
- To enable students to simulate models of local area networks using a simulation tool.

Learning Outcomes:

The Learning Outcomes of this course are given below.

A. Knowledge & Understanding of:

- A1. ICT systems principles, concepts and techniques
- A2. ICT systems theoretical and practical models (networks design and model).
- A3. ICT systems technical descriptions
- A4. Techniques & tools for modelling, predicting and evaluating the behaviour & performance of ICT systems.

B. Cognitive skills :

- B1 . To develop understanding of a number of key information and communication technologies.

B2 . To develop skills as an effective and reflective learner.

C Key Skills:

- C1. To communicate effectively about ICTs.
- C2. To improve own learning & performance.
- C3. To solve problems associated with ICTs.
- C4. To interpret and critically analyze literature on ICT systems, techniques, applications and issues

D Practical and/or professional skills:

- D1. To use communication networks to prepare, deliver and communicate ideas and issues about ICTs.
- D2. To execute and explore simulations relevant to ICTs.
- D3. To search for and work with electronic resources.

Course Structure:

The T209A course has 3 modules. Each module covers one of the key themes in the course.

Table of Contents:

Module 1: In Touch and Informed.

- Systems
- Technologies
- Epilogue
- Documents
- Communication Skills

Module 2: Talking with Computers

- Context
- Speech Recognition
- Design Strategies
- Experiments

Module 3: Managing Networks.

- Networks for business
- Networks
- Network Management
- Experiments using Network Simulation
- Writing Reports

Assessment:

The assessment for the T209A course consists of the following 3 components:

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

Grade Distribution:

The percentage grade distribution for the above 3 components is as follows

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

Course Calendar (Indicative Version):

There are 2 Tutor Marked Assignments, 1 Midterm Assessment 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%.

Study Week	Course Text	Other Course Components	Audio, Visuals, Multimedia, CD, and Web	Assignment /Assessments
1	Module 1: In touch and Informed	ICT CD-Rom		
3				
5				
7	Module 2: Talking with Computers	ICT CD-Rom	Voice recognition software	TMA01 due date
9			Video - HCI	Quiz / MTA
11				
13	Module 3: Managing Networks		Network simulation software	TMA02 due date
15			Network animations	
16	Final Exam Period			