



Faculty of Computer Studies

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

Course Guide

T175A: Networked living: exploring information and communication technologies (Part A)

Credit Points/ Credit Hours: 15 / 4

Pre-Requisites:

EL111

Short Description:

In T175A the student will learn about living in a networked world where people are connected through ICTs. The student will learn about communication and identity and learn about how network scan connect people, information and devices. It also considers the role of identity in communication; identities of devices and of people. Finally, T175A discusses entertainment and information fields and considers how ICTs have transformed entertainment and news broadcasting.

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 networking, communication and identity, and entertainment and broadcasting, 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 of 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. Some physical principles underlying ICT systems.
- A4. How ICTs are used in networking, communication and identity, and entertainment and broadcasting, and for different purposes.
- A5. Developments in ICTs and the implications of these developments.
- A6. Social issues raised by ICTs.

B. Cognitive skills:

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

- B1. Interpret and develop models of ICT systems.
- B2. Compare ICT systems and their components.
- B3. Analyse and interpret aspects of ICTs and their contexts.
- B4. 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 reading and writing about ICTs.
- C3. Develop the student's skills in performing calculations relevant to ICTs.
- C4. Develop the student's skills in finding and evaluating information using ICTs.

D. Practical and professional skills:

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

- D1. Plan and organize the student's work, and review his / her progress.
- D2. Develop student skills in applying ICT concepts to real world problems in areas of networking, identity and information processing
- D3. Develop the student's skills in working collaboratively with others using computer-mediated communication.

Course Structure:

This course is divided into 3 blocks.

Block 1 is half the length of the later blocks.

Block1: Living in a networked world provides an introduction to ICT systems and to the course. It introduces some of the ICT concepts and contexts which you will study in more depth as you progress through the course. It also begins to develop your learning, communication and numeracy skills.

Block2: Communication and identity looks at how network scan connect people, information and devices. It also considers the role of identity in communication – identities of devices and of people. Most of this block is delivered online so that you can develop skills in navigating, searching and learning from the World Wide Web.

Block3: Entertainment and information considers how ICT shave transformed entertainment and news broadcasting. It explains some underlying ICT concepts in the

context of digital images, film, computer games, news gathering and broadcasting. Students will study parts 1-2 of block 3 in this course and part 3 will be studied in T175B.

Table of Contents:

Block 1: Living in a networked world

Part 1 ICTs in Everyday Life

Study Session 1: The network society

Study Session 2: Your networked life

Part 2 Introducing ICT Systems

Study Session 1: Describing an ICT system

Study Session 2: Computers

Study Session 3: Computers and communication systems
working together

Part 3 Technology News

Study Session 1: Take note

Block 2: Communication and identity

Part 3 Device to device

Study Session 1: Communication between devices

Study Session 2: Signals

Study Session 3: Wired networks

Study Session 4: Wireless networks

Study Session 5: Comparisons

Study Session 6: Smart homes

Study Session 7: RFID

Study Session 8: Using RFID, and epilogue

Block 3: Entertainment and information

Part 1 Entertainment

1 Introduction

2 Digital ICTs

3 A Socio-technological case study: Video Recording

4 Dealing with data mountain : compression

5 Influence of computer game technology

Part 2 Information

1 Bringing news on the back of a horse

2 From news reels to real news

- 3- News gathering now
- 4- Anatomy of a digital camcorder
- 5- Signal transmission
- 6-Trust

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 of 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	14/10/2008	Block 1: Part1: Study session 1, 2	
3	28/10/208	Block 1: Part2: Study session 1 to 3. Part 3: Study session 1	
5	11/11/2008	Block 2: Part3: Study session 1 to 4	
7	25/11/2008	Block 2: Part3: Study session 5 to 8	TMA01 due date Quiz / MTA
	6-11/12/2008 (Probable dates)	Hajj & Eid Al-Adha	
9	9/12/2008 (may have to be shifted due to Eid)	Block 3: Part1 (1 to 6)	
11	23/12/2008	Block 3: Part2 (1 to 3)	TMA02 due date
13	6/1/2009	Block 3: Part2 (4 to 7)	
15	19--31/1/2009	Final Exam Period: To be Announced	

