Course Syllabus

First Semester – 2013/2014

General Information

Course name	Course code	Credits	Contact hours
Computer and Systems	BMTS 242	(1-1-0)	(1-2-0)

Instructors/ Coordinators

	coordinator	Instructor
Name	VINOTH KUMAR	Mr. Anand Sam
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Ext	2894	2834

Text Book

Title	The Elements of Computing Systems- Building a Modern Computer from first Principle , MIT Press
Author/Year	Noam Nisan, Shimon Schocken / 2005

Supplemental materials

Recommended Textbooks and Reference Material	
Title	Fundamentals of computer
Author/Year	V Rajaraman, PHI Learning PVT. Ltd / 2010

Electronic Materials (eg. Web Sites, Social Media, Blackboard, etc.)		
Web sites	http://my.safaribooksonline.com	

Specific Course Information

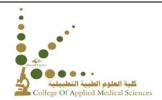| **a. Brief description of the content of the course (Catalog Description)** |
|---|
| This course focuses on the computer system. It starts with an introduction to Computer Fundamentals, Information Processing Cycle, and Types of Computer Systems. It also studies System Software types, functions of Operating System, Popular Operating Systems and System Utilities. It focuses also on Motherboard, and Memories, Input/ Output and Storage Devices. |
| **b. Prerequisites (P) or Co-requisites (C):** |
| None |
| **c. Course type (Mandatory or Elective)** |
| Mandatory |

Specific Goals

a. Specific outcomes of instruction.
By the end of this course, the student will be able to:

- Recognize the basic concepts of a computer (a).
- Describe the relationship between hardware and software (a).
- Analyze the usage of Input / Output components (c).
- Solve applications in excel and access (c).
- Participate different applications for different problems (e).
- Function in a group to assemble computer components (e).

b. Student outcomes addressed by the course.

a	b	c	d	e	f	g	h	i	j	k
✓		✓		✓						

Brief list of topics to be covered

Topics	No of Weeks	Contact hours
Introduction to Computer Fundamentals	1	1
Information Processing Cycle	1	1
Types of computers systems	1	1
Computer Organization	1	1
Computer hardware	1	1
Fundamentals of Computer Software	1	1
Computer Software Types	1	1
Functions of Operating Systems	1	1
Popular Operating Systems	2	2
Motherboard	1	1
Computer Memory, Memory Types	2	2
Input Devices, Output Devices, Storage devices	2	2