CSE111 Introduction to Computer Applications

Lecture 0

Organizational Issues

Prepared By Asst. Prof. Dr. Samsun M. BAŞARICI

About this Course

Course Title	Course Code	Semester	Course Hour/Week		ADU Credit	ECTS
Introduction to Computer Applications	CSE 111	Spring	Theory 2	Practice 2	3	3
Course Type						
1. Compulsory Courses						
1.1. Programme Compulsory Courses						X
1.2. University Compulsory Courses (UFND)						
1.3. YÖK (Higher Education Council) Compulsory Courses						
2. Elective Courses						
2.1. Program Elective Courses						
2.2. University Elective Courses						
3. Prerequisites Courses						
3.1. Compulsory Prerequisites Courses						
3.2. Elective Prerequisites Courses						

About this Course (Cont.)

Language of Instruction	**English**
Level of Course	~~Associate Degree (Short Cycle)~~ Undergraduate (First Cycle) ~~Graduate (Second Cycle)~~ ~~Doctoral Course (Third Cycle)~~
Special Pre-Conditions of the Course (compulsory)	None
Special Pre-Conditions of the Course (recommended)	

Course Instructor(s)	**Dr. Samsun M. Başarıcı**	**Mail: sbasarici@adu.edu.tr** **Web: http://akademik.adu.edu.tr/fakulte/muhendislik/personel/sbasarici/anasayfa**

Main Objective(s) of this Course

- Let the student gain basic knowledge about computers, Windows 7, some widely used MS Office programs such as Word, Excel, and Power Point.
- Let the student gain basic knowledge about the logic of programming and the fundamentals of Matlab Language.

Learning Outcomes of this Course

- Upon successful completion of this course, students will
  - Know the main concepts of ICT and the different parts of a computer hardware and software.
  - Know how to run and manage a PC using Windows 7.
  - Create letters and documents using Microsoft Word.
  - Create visual presentations using Microsoft PowerPoint.
  - Use Microsoft Excel to create and manage lists text, mathematical and logical formulas and charts to produce accurate spreadsheets.

Learning Outcomes of this Course (Cont.)

- Understand the logic of programing using pseudo code and flowcharts.
- Understand the fundamentals of MATLAB language.
- Write MATLAB scripts for problem solving.

Course Content

- General information about Computer hardware and software
- Using MS Windows 7
- Fundamentals of some widely used MS Office programs such as Word, Excel, and Power Point
- Flowcharts, pseudo code, basic concepts of programing
- MATLAB programming language, matrices and arrays, workspace variables, data types, functions, logical expressions, loops, writing scripts, constructing 2-D and 3-D Plots.

Resources

Required Course Material (s) /Reading(s)/Text Book (s)	**1) Gary Shelly, Misty Vermaat, "Microsoft Office 2010: Introductory", Cengage Learning, 2010.** **2) William J. Palm III,"Introduction to MATLAB for Engineers", 3rd Edition,McGraw-Hill,2010.** **3) Lecture Notes**
Recommended Course Material (s)/Reading(s)/Other	Other sources will be announced

Course Schedule (Weekly)

Week	Topics	Preliminary Preparation
1	Introduction to computers system: Computer hardware & software, Storage Devices, and Numbering System.	(1) Introduction to Computers.
2	Windows operating system: Windows Desktop Components, Folder and Files Management, Control Panel, Managing Networks.	(1) Office 2010 and Windows 7: Essential Concepts and Skills.
3	Introduction to MS Word 1: files and menus, writing, editing and formatting documents, moving, copying, undo, etc.	(1) Word 2010: Ch1
4	Introduction to MS Word 2: formatting paragraphs, Bulleted lists, page formatting, Setting Tabs, Searching and replacing text, Backstage View, Insert Tab, etc.	(1) Word 2010: Ch1
5	Introduction to MS Power Point: Creating Slides, formatting slides, Insert Tab, PowerPoint Views, Apply Slide Transitions, Apply Animation Schemes, Modifying the Master Slide.	(1) PowerPoint2010: Ch1, Ch2, Ch3
6	Introduction to MS Excel 1: entering & filling, performing calculations, writing formulas, invoking and using built-in functions.	(1) Excel 2010: Ch1
7	Introduction to MS Excel 2: relative, absolute and mixed references, sorting data, filtering data, conditional formatting, constructing charts and graphs.	(1) Excel 2010: Ch2

Course Schedule (Weekly) (Cont.)

Week	Topics	Preliminary Preparation
8	MIDTERM EXAM	
9	Algorithms: Definition, Description and components; Pseudo Code.	(3)
10	Flow Charts: Sequence and If and If...Else Decision structures.	(3)
11	Flow Charts: While and For Repetition Structure.	(3)
12	Flow Charts: While and For Repetition Structure (cont.)	(3)
13	Introducing Matlab desktop panels, matrices and arrays, workspace variables, character strings, using and calling functions, constructing 2-D and 3-D Plots.	(2) Chapter 1, 2
14	Creating scripts, data types, conditional control, and loops.	(2) Chapter 4
15	Revision	
16	FINAL EXAM	

Assessment

Semester Activities/ Studies	NUMBER	WEIGHT in %
Mid- Term	1	45
Attendance	-	-
Quiz	-	-
Assignment (s)	-	-
Project	-	-
Laboratory	-	-
Field Studies (Technical Visits)	-	-
Presentation/ Seminar	-	-
Practice (Laboratory, Virtual Court, Studio Studies etc.)	-	-
Other (Placement/Internship etc.)	-	-
TOTAL		**45**
Contribution of Semester Activities/Studies to the Final Grade		45
Contribution of Final Examination/Final Project/ Dissertation to the Final Grade	1	55
TOTAL		**100**

Assessment (Cont.)

- Final Grades will be determined according to the Adnan Menderes University Associate Degree, Bachelor Degree and Graduate Degree Education and Examination Regulation

Responsibilities of the Students

- Obtaining the text book(s)
- Coming to the course with a good preparation
- Completing the exercises with individual efforts unless told otherwise
- Following the rules set by the responsibles for the course and the implementation/lab. studies