



**Philadelphia University
Faculty of Engineering
Department of Architecture
First semester, 2010/2009**

Course Syllabus

Course Title: Computer Aided Design (1)	Course code : 0660218
Course Level: First	Course prerequisite (s) : Corequisite (s): 660111
Lecture Time: 13:00-16:00	Credit hours: 2

**Academic
Staff Specifics**

Name	Rank	Office Number and Location	Office Hours	E-mail Address
Ahmed Abu Al Haija	Associate Prof.	NO.6410 T:2605	8-9 Sun 11-1 Mon 8-9 Tue 8-9 We	ahaija@fastwebnet.it

Course module description:

This course introduces the general use of computers and file management. It covers 2D drawing using several graphics software programs to enable students to execute various 2D architectural drawings

Course module objectives:

This course aims to educate student on architectural drawing by using computer

Assessment instruments

<u>Allocation of Marks</u>	
Assessment Instruments	Mark
First examination	20%
Second examination	20%
Final examination	30%
Homework & Exercise	10%
Projects	20%

Total	100%
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* Make-up exams will be offered for valid reasons only with consent of the Dean. Make-up exams may be different from regular exams in content and format.

Course/module academic calendar

week	Basic and support material to be covered	Homework and their due dates
(1)	<p><u>Course introduction</u> <u>The screen ingredients</u></p> <ul style="list-style-type: none"> • Main toolbars • Commands toolbars • Workspaces <p><u>Workspaces Settings</u></p> <ul style="list-style-type: none"> • Tool commands { workspaces / palettes _ quickcalc / clean screen / options } • Window commands { close / close all } • Format commands { units / drawing limits / rename / scale list } • File command { new / open / close / save / save as / drawing properties } <p><u>Main commands</u></p> <ul style="list-style-type: none"> • Draw commands { line / ray / construction line / multiline / spline / polygon / rectangle } 	
(2)	<p><u>Standard toolbars</u> { show-hide line weight / dynamic input / object snap / ortho / grid / snap }</p> <p><u>Main commands</u></p> <ul style="list-style-type: none"> • View command { zoom / pan } • Edit commands { cut / paste / copy with base point / copy / past as block / select all / clear } • Modify command { erase / copy / move / rotate / array / offset / trim / extend } • Draw command { circle / donut / helix / ellipse } 	
	Exercise (1+2)	Homework (1)
(3)	<p><u>Main commands</u></p> <ul style="list-style-type: none"> • Draw command { arc / polyline / block } • Modify commands { object / polyline / explode / pedit / mirror / break / chamfer / fillet } <p><u>Inquiry toolbar</u> { distance / area }</p>	Homework (1)
	Exercise (3+4) /	Homework (2) /
(4)	<p><u>Main commands</u></p> <ul style="list-style-type: none"> • All Dimension commands • Format commands { dimension style / text style / table style / point style } • Draw commands { table / point / text } 	Homework (2)
	Exercise (5+6) /	Homework (3) /
(5) First exam	<p><u>Main commands</u></p> <ul style="list-style-type: none"> • Modify command { scale / stretch / Break / join } • Draw commands { Hatch / Gradient } <p><u>Revising</u></p>	Homework (3)

	<u>First exam</u>	
(6)	<u>Main commands</u> <ul style="list-style-type: none"> • Format commands { layer / layer tools / color /line type / line weight } • Modify command { properties / match properties } <u>Layers toolbars</u> <u>Layer 11 toolbars</u> <u>Properties toolbars</u> <u>introduction in drawing architectural plans</u>	
	Exercise (Plan / drawing) / 5 marks	
(7)	Exercise (Plan / axes) / 5 marks	<u>Final project</u> - ground floor - First floor - Top plan - 2 sections - 2 elevation
(8)	Exercise (Plan / external dimension) / 5 marks	
(9)	Exercise (Plan / internal dimension) / 5 marks	
(10)	Exercise (Plan / furniture) / 5 marks	
Second exam.	<u>Second exam</u>	
(11)	Exercise (Section) / 5 marks	
(12)	Exercise (Elevation) / 5 marks	
(13)	<u>Layout & Plot</u> Exercise (top plan) / 5 marks	
(14) Final Exam	<u>Follow up and revisions</u> <u>Final Exam</u>	Final Project
(15)		
(16)		

Attendance policy:

Absence from lectures and/or tutorials shall not exceed 15%. Students who exceed the 15% limit without a medical or emergency excuse acceptable to and approved by the Dean of the relevant college/faculty shall not be allowed to take the final examination and shall receive a mark of zero for the course. If the excuse is approved by the Dean, the student shall be considered to have withdrawn from the course.