DEPARTMENT OF ARCHITECTURE ENGINEERING
ARCHITECTURE ENGINEERING PROGRAM, BSC.

Course Syllabus

1. **Course number and name**
   AR 204 Computer in Architecture 1

2. **Credits and contact hours**
   (2+2) 3 credit hours, 4 contact hours

3. **Course type**
   Blended Learning Course (1+1)

4. **Instructor's or course coordinator's name**
   Arch. Ala Gammoh

5. **Textbook information**
   1. AutoCAD 2012 and AutoCAD LT 2012 Bible, by Ellen Finkelstein, 2011.
   2. AutoCAD 2009 & AutoCAD LT 2009 by Ellen Finkelstein, 2008.
   3. Introduction to AutoCAD 2006 2D and 3D Design by Alf Yarwood, 2006.
   4. AutoCAD 2012 and AutoCAD LT 2012: No Experience Required Autodesk Official Training

   a. **Other supplemental materials**
      Instructor's notes

6. **Specific course information**
   a. **Catalog description**

Enable the student to use AutoCAD software to draw full and accurate 2D drawings. Enable the student to use AutoCAD software to draw full and accurate 3D drawings using different types of models (Solid, Mesh & Surface).

b. **Prerequisites or co-requisites**
   Prerequisite: AR112 Introduction to Architecture Design 2 (806112) & CE107 Engineering Drawing (805107)

c. **The course is:**
   Required in the Architecture program.

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7. Specific goals for the course

A. Course outcomes:

After completion of the course, students are expected to be able to:

A1. Ability to use appropriate presentation techniques such as manual drawings and digital technological methods to reach the proper form for each phase in the design process.

A2. Ability to produce initial and comprehensive working plans.

8. Learning Outcomes and their Alignment with Program Educational Objective (PEO's), Methods of Delivery, and Assessment Methods:

Learning Outcomes	Program PEOs	Method of Delivery	Assessment Method
Course Outcomes			
A1. Ability to use appropriate presentation techniques such as manual drawings and digital technological methods to reach the proper form for each phase in the design process.	ARC-1.1.4.1	Lectures + Online Lecture/ synchronous active learning + Asynchronous active learning	Home Works, Mid & Final Exams
A2. Ability to produce initial and comprehensive working plans.	ARC-1.1.4.2	Lectures + Online Lecture/ synchronous active learning + Asynchronous active learning	Home Works, Mid & Final Exams

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9. Weekly Teaching Plan

Week No	Lecture	Topic	Method of Delivery
1	6-3-2022	Course Introduction	Lecture
	8-3-2022	Course Introduction & Auto CAD Interface	Lecture
2	13-3-2022	Auto Cad Interface ,Coordinate systems and limits draw Menu: Lines, circle, Rectangle, etc.	Lecture
	15-3-2022	Auto Cad Interface, Coordinate systems and limits, draw Menu: Lines, circle, Rectangle, etc.	Online Lecture/ synchronous active learning
3	20-3-2022	Modify Menu: Copy, Mirror, Rotate, Fillet Chamfer, etc.	Lecture
	22-3-2022	Modify Menu: Copy, Mirror, Rotate, Fillet Chamfer, etc.	Asynchronous active learning
4	27-3-2022	Modify Menu: Copy, Mirror, Rotate, Fillet Chamfer, etc.	Lecture
	29-3-2022	Modify Menu: Copy, Mirror, Rotate, Fillet Chamfer, etc.	Asynchronous active learning
5	3-4-2022	Layers & Blocks	Lecture
	5-4-2022	Layers & Blocks	Asynchronous active learning
6	10-4-2022	Layers & Blocks	Lecture
	12-4-2022	Layers & Blocks	Asynchronous active learning
7	17-4-2022	Hatch & Dimension	Lecture
	19-4-2022	Hatch & Dimension	Online Lecture/ synchronous active learning
8	24-4-2022	Easter	
	26-4-2022	Mid Exam	Lecture
9	1-5-3022	Labor Day	
	3-5-2022	Solid Modeling	Online Lecture/ synchronous active learning
10	8-5-2022	Solid Modeling	Lecture
	10-5-2022	Solid Modeling	Asynchronous

			active learning
11	15-5-2022	Solid Modeling	Lecture
	17-5-2022	Solid Modeling	Asynchronous active learning
12	22-5-2022	Mesh Modeling	Lecture
	24-5-2022	Mesh Modeling	Online Lecture/ synchronous active learning
13	29-5-2022	Mesh Modeling	Lecture
	31-5-2022	Surface Modeling	Asynchronous active learning
14	5-6-2022	Surface Modeling	Lecture
	7-6-2022	View ports in model space, Multi view in layout space and how to print drawings in specific scales.	Online Lecture/ synchronous active learning
15		Final Exam	Lecture

10. Grade Distribution:

Assessment	Grade	Week No.
- Midterm Exam	30%	8th Week
-Home Works & Exercises	30%	1-14th Week
- Final Examination	60%	15th Week

Note: Make-up exams will be offered for valid reasons. It may be different from regular exams in content and format.