

## Syllabus

Faculty Architecture and Design  
Department Architecture Engineering  
Semester Second  
Academic Year 2019/2020

Course Name **Computer Design Applications**

Course Number **1101262**

Each student shall receive a copy of the syllabus to be kept for future reference.

### 1. Instructor Information



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Ref.: Deans' Council Session (03/2018-2019), Decision No.: 14, Date: 15/09/2018

1. Instructor: Bahijah Natsheh
2. Office: 358
3. Office Telephone: +962 6 4790222
4. Email: bnatsheh@meu.edu.jo
5. Office Hours: 10:30-11:30 Sun, Tues

## **2. Course Details**

1. Meeting Times: 9:00- 14:00 Sat
2. Location: AB 047
3. Course Laboratory (if any): AB 047

## **3. Sources and References**

1. Required Readings: **Mastering AutoCAD 2018 and AutoCAD LT 2018, George Omura, Brian C. Benton, ISBN: 978-1-119-38679-7, 2017**

2. AutoCAD 2018 and AutoCAD LT 2018 Essentials 1st Edition, scott onstott, sybex

2. Additional Readings:

[www.Autodesk.com](http://www.Autodesk.com), AutoCAD Autodesk manual

## **4. Course Description**

1. The Description: The use of computers in producing simple 2D and 3D architectural drawings: basic architectural design drawings, working drawings, furniture and accessories using AutoCAD.

## **5. Aims and objectives:**

1. To enable students to create full 2D and 3D drawings and set them up in working drawings focusing on basic tools that the majority of students need in their studying when using AutoCAD software.

2. To enable students to Learn about the knowledge and skills necessary to produce the most common architectural drafting documents.

## **6. Course Learning Outcomes (CLOs):**

Upon successful completion of this course, the student should be able to:

1. Understanding of the power and precision of computer-aided modeling and drafting.
2. Ability to construct accurate 2D geometry as well as complex 3D shapes and surface objects.
3. Create drawing sheets and plotting.
4. Awareness of architectural drawings with a focus on industry standards.

## **7. Programme Learning Outcomes (PLOs):**

1. Implement concepts of architecture with high proficiency.
2. Keep pace with intellectual and practical developments to fulfill the varying needs of society.
3. Understand the importance of local heritage and preserve it.
4. Understand the diverse civilizations of the world and boost cultural exchange.
5. Apply innovation and critical thinking on various fields of Architecture.
6. Find creative and innovative solutions for various design dilemmas.
7. Use high skills in expressing and communication.
8. Continuously learn how to conduct research and apply it in professional practices.
9. Adhere to professional ethics and principles of practice.

## **8. Teaching Methods**



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#	Description	Weight	Description
1.	First Exam	20%	
2.	Second Exam	20%	
3.	Final Exam	40%	Including final project
4.	Assignments & Participation	20%	Class exercises & homework
<b>Total</b>		<b>100</b>	

### 9. Course Schedule:

Week	Topics to be covered	Readings (Pages)	CLOs	PLOs
1	Introduction to AutoCAD 2017	p. 3-16	1	1,5,6,7
2	Basic Drawing skills	p.65-100	2	1,5,6,7
3	Using drawing aids	p.539-540	2	1,5,6,7
4	Shaping curves	p.475-500	2	1,5,6,7
5	First exam	-----	2	1,5,6,7
6	Hatching and gradients	p.623-681	2	1,5,6,7
7	Organizing objects	p. 554-555	2	1,5,6,7
8	Creating and editing text	p.557-570	2	1,5,6,7
9	Adding annotation & dimensions Creating drawing sheets and plotting	p.269-400	2,5	1,5,6,7
10	Modeling in 3D	p. 717-747		1,5,6,7
11	Modeling in 3D	p. 269-332	3,5	1,5,6,7
12	Second exam	-----	2,5	1,5,6,7
13	Presentation and rendering	p. 823-845	2,5	1,5,6,7

14	Final project	-----	3,4,5	1,5,6,7
15	Final exam	-----	3,4,5	1,5,6,7

## 10. Course Policies

- Course policies are determined by Undergraduate and Postgraduate Degree Regulations and Student Guide

- Policies should be announced during the first meeting.

### 1. Attendance:

Students are expected to attend all classes of this course (without exception). A prior approval is required for class absence except for emergencies. However, any student with 15% short attendance will be not be allowed to attend the final exam, and may better drop the course.

### 2. Tardiness:

Students are not allowed to come late to class. Any student coming more than 5 minutes late will be marked absent. However, he/she may still be allowed to attend the class in spite of being marked absent if he/she wishes to do so, on the condition that the student does not make a habit of it, and that the number of tardy students is limited to a little number of very special cases.

3. Exams: Failure in attending a course exam will result in a zero mark unless the student provides an excuse acceptable to the instructor, the Head of the Department, and the Dean who approves a re-sit exam. It is the student's responsibility to attend the exam at the correct time and place. The first and second exam papers will be returned to the students.

4. Assignments and Projects: Exercises will take place in the class room and will be continued at home.

5. Attending Exams and Meeting Deadlines: In the event that a student shows up late for the 1st or 2nd exam, he/she will be permitted to attend the exam on the condition that none of his/her has already left the room; also he/she will not be allowed any extra time. In the event that a student is more than 30 minutes late for the final exam, he/she will not be permitted to attend the exam.

6. Penalties for Cheating: Cheating is an attempt to gain marks dishonestly and includes: Copying from another student's work, using materials not authorized by the institute or instructor, collaborating with another student during a test without permission, knowingly using, buying, selling, or stealing the contents of a test, getting help from outside during a test by using any kind of electronic device, etc.



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