Cihan University - Sulaimaniya	**Course Title: AutoCAD**
Department of Architecture	**Course Code: ARC-41113**
	Academic Year: 2015/2016
Second year	**Credits: 2 Hours: 3**

Course name	**AutoCAD Drawing**						
Teacher in charge	Ass. Lecturer Karzan Jalal Saadoon						
	Ass. Lecturer Tara Azad Rauof						
Department	Architectural Engineering						
Contact	e-mail : karzanarch@yahoo.com taraazad@hotmail.com						
Name of the coordinator	Dr. Nahedh Taha						
Course overview:							
AutoCAD basically is a program produced and marketed by by Autodesk Inc. (CAD) is shortcut of computer-aided design, this program is used for making 2-D and 3-D design and drafting. In addition, AutoCAD is one of the vital program for the architects that could be achieved on personal computers.							
Course objective:							
Students should be trained how to use this versatile software to create, any drawing regardless of architecture and understanding the techniques of print and plot drawings. Students are learning AutoCAD to use daily for drawing creation and editing beside students will learn advanced concepts and commands for working in AutoCAD, how to draw objects and use modification tools, and the basics of using blocks, this course offers the skills needed to start working effectively in AutoCAD.							
Course Reading List and References							
Key references							
Mastering AutoCAD 2013 and AutoCAD LT 2013 by George Omura and Brian C. Benton	(Internet), AutoCAD Tips, Techniques & Tutorials						
Course Assessment	Homework and class-works	Quiz	Tendency	Mid Term Tests Practical	Mid Term Tests Theory	Final Exam Practical	Final Exam Theory
	(10%)	**(5 %)**	**(5%)**	**(20%)**	**(10 %)**	**(35%)**	**(15%)**

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Weeks	The Topics:	Lecturer's name
(1,2)	Getting Started with AutoCAD Starting the Software how to install and manage the software Basic. Drawing and Editing Commands - Drawing Lines - Erasing Objects - Drawing Lines with Polar Tracking - Drawing Rectangles - Drawing Circles - Undo and Redo Actions	Ass. Karzan Jalal Saadoon Ass. Tara Azad 3 hours 5/10/2015 12/10/2015
(3,4)	Drawing Precision in AutoCAD - Using Running Object Snaps - Using Object Snap Overrides - Polar Tracking at Angles - Object Snap Tracking - Drawing with Snap and Grid	19/10/2015, 26/10/2015
(5,6)	Organizing Your Drawing with Layers - Creating New Drawings with Templates - What are Layers - Layer States - Changing an Object's Layer	02/11/2015, 09/11/2015
(7,8)	Advanced Object Types - Drawing Arcs - Drawing Polylines - Editing Polylines - Drawing Polygons - Drawing Ellipses	16/11/2015, 30/11/2015
(9,10)	Getting Information from Your Drawing - Working with Object Properties - Measuring Objects	07/12/2015, 14/12/2015
(11,12)	Advanced Editing Commands - Trimming and Extending Objects - Stretching Objects - Creating Fillets and Chamfers - Offsetting Objects - Creating Arrays of Objects	21/12/2015, 04/01/2016

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(13,14)	Setting Up a Layout - Printing Concepts - Working in Layouts - Creating Layouts - Creating Viewports - Guidelines for Layouts	11/01/2016, 18/01/2016
(15,16)	Inserting Blocks - What are Blocks - Inserting Blocks - Creating with Blocks - What are Dynamic Blocks - Creating with Dynamic Blocks	25/01/2016, 01/02/2016
(17,18)	Printing Your Drawing - Printing Layouts - Print and Plot Settings	08/02/2016, 15/02/2016
(19,20)	Text - Working with Annotations - Adding Text in a Drawing - Modifying Multiline Text - Formatting Multiline Text - Adding Notes with Leaders to Your Drawing - Creating Tables - Modifying Tables	22/02/2016, 29/02/2016
(21,22)	Hatching - Hatching - Editing Hatches Adding Dimensions - Dimensioning Concepts - Adding Linear Dimensions - Adding Radial and Angular Dimensions - Editing Dimensions	01/03/2016, 08/03/2016
(23,24)	-3D viewing techniques -Working with simple and composite solids -Creating complex solids and surfaces -Modifying objects in 3D space -Editing solids	15/03/2016, 29/03/2016
(25,26)	Creating sections, camera perspectives, and animations -Working with point clouds	

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	-Converting 3D objects -Setting up a rendering with materials and lights -Creating 2D drawings from 3D models Working with the User Coordinate System	04/04/20167, 11/04/2016
(27,28)	-Creating sections, camera perspectives, and animations -Working with point clouds -Converting 3D objects -Setting up a rendering with materials and lights	18/04/2016, 25/04/2016
(29)	-Creating 2D drawings from 3D models Working with the User Coordinate System	02/05/2016

Examinations:

The students should expect to draw and make a 3d model of buildings plan or any relevant.

Student learning outcome:

AutoCAD is an initiative software program which has been used in various industries. This software helps students to visualise their final product concepts and the quality of the design is dramatically improved. The major benefit to taking AutoCAD classes and learning how this documentation is developed. In additions, it's extremely important for the students to know AutoCAD very well, to find a job after graduation.

Anyone looking for a job in the architectural or engineering sector must benefit greatly from having a certificate in this type of program. It helps students more to join a company and get to work, understanding the software used and helping them be a productive member of the team from day one.

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