



Faculty of Engineering Course Syllabus

Course Title:	Computer Aided Engineering Drawing	Course Number:	11400202
Department:	Engineering	Designation:	College Requirement
Prerequisite(s):	11400201		
Course description:	Introduction to Computer Aided Drawing (AutoCAD) Software, Drawing limits, grid setting and drawing aids, coordinate system, Drawing tools (point, line , ray, multi-line, poly-line, polygons, rectangle, arc, circle, ellipse), Modify tools (copy, erase, offset, move, rotate, lengthen, terminate, fillet, chamfer, array), Layers, Zoom, dimensions, text, hatch, isometric drawing.		
Textbook(s):	James H. Earle, “ Engineering Design Graphics, with AutoCAD 2000”, Addison Wesley		
Other material:	Teacher Notes, AutoCAD software		
Course objectives:	<ol style="list-style-type: none">1. To know the fundamental rules of an international language that enables ideas to be expressed and communicated in an easy and clear way through visual illustrations.2. Position students feet on the first step of engineering design which based on visual representation3. Encourage creative and inspirational solutions to many basic engineering problems4. Study the techniques for better presentation that lead to better communication design5. Provide the completeness of details necessary for design, construction of a machine, or structural element ...6. Introducing a vast used graphics design software AutoCAD		
Topics covered:	<ol style="list-style-type: none">7. AutoCAD basics and Getting Started with AutoCAD 20078. Drawing of Lines, Absolute and relative Cartesian Coordinate9. Absolute and relative Polar Coordinate , Direct entry method10. Drawing Circles and Polygons, Learn the use of the following commands: Circle, Construction Line, Polygon, Offset, Trim, Fillet, Drawing Arc, Poly Lines, Donuts, Multi Lines, Learn the use of the following commands: Arc, Point, Poly-line, Donut, Multi-line, Spline, and Object Snapping11. Drawing Rectangles, Arrays, Learn the use of the following commands: Rectangle, Chamfer, Mirror, Rotate, Array, and Copy12. Drawing Multi Lines, Making Blocks, Learn the use of the following commands: Make Block, Insert Block, Write Block, Multi-line, Text Edit, Inquiry, and Match Properties13. Line Type and Weight, Coloring, Hatching, Learn the use of the following commands: Line Type, Line Weight, Coloring, and Hatching14. Dimensioning, Learn the use of the following dimensioning commands: Q-dim, Linear, Aligned, Baseline, Leader, Circle, Arc, Center, Mark, Ordinate, Oblique, Text, Angular, Continue15. Layers, Creation and control of layers16. Isometric Drawing		
Class/laboratory schedule:	3 class sessions each week; 50 minutes each		
Grading Plan:	Class Work	(30 Points)	
	Mid Term Exam	(30 Points)	
	Final Exam	(40 Points)	Will be announced by the registrar