MODULE DESCRIPTION FORM

Course Description Form

Module Information Course Information						
Module Title	Title Engineering Drawing		g	Modu	ıle Delivery	
Module Type		Basic			☐ Theory	
Module Code		ENG114			☐ Lecture☑ Rennet	
ECTS Credits		7			☐ Tutorial ☑ Practical	
SWL (hr/sem)	175				☐ Seminar	
Module Level		UGI	Semester	ter of Delivery 1		1
Administering Dep	partment	CIV	College	ENG		
Module Leader M, Ghazi Galil E Kaishish		ng/ mEng. Mohammed A. Ą́ziz	e-mail	Moham	med.ali@uowa.e	edu.iq
Module Leader's A	Acad. Title	Assistant Lecturer	Module Le	eader's Qualification Majest J		Majest J
Module Tutor M , Ghazi Galil .E. Kaishish		ng/ mEng. Mohammed A. <u>A</u> ziz	e-mail	Ghazi.alsady@uowa.edu.iq		.iq
Peer Reviewer Name		Name	e-mail	E-mail		
Scientific Committee Approval Date		019/11/2023	Version N	umber	mber 1.0	

Relation with other Modules					
Stuck with other subjects					
Prerequisite module None Semester					
Co-requisites module	None	Semester			

Module Aims, Learning Outcomes and Indicative Contents				
	Course objectives, learning outcomes and instructional content			
Module Objectives Course Objectives	This course discusses the fundamental concepts of engineering graphics. It gives also an introduction to computer graphics using CAD software. The following topics are aimed to covered: 1- Drawing conventions such as standards, line types and dimensioning. 2- Drawing of inclined and curved surfaces. 3- Deducting the orthographic views from a pictorial. 4- Drawing full and half sections; deducting an orthographic view from given two views. 5- Pictorial sketching (isometric and oblique).			
Module Learning Outcomes Learning outcomes of the course	 Recognize the value of engineering graphics as a language of communication. Infer the nature of engineering graphics, the relationships between 2D and 3D environments. Comprehend and deduce orthographic projections of an object. Visualize wide variety of objects and drawing the missing views. Comprehend and deduce section views. Produce three dimensional drawings utilizing CAD software. 			
Indicative Contents Indicative Contents	 Identify Drawing Sheets. Apply Drawing Scales. Respect Drawing Lettering Standard Rules and Apply Dimension Rules. Apply Drawing Conventional Representations Dimensioning and Standard Abbreviations. 			

Learning and Teaching Strategies S Retizat Learning and Teaching					
Strategies	1. Delivering in-person meetings and discussion the classroom that delivers the scientific material to the student. 2. Directing questions and inquiries in depth and accuracy. 3. Development of education through the conclusion of solutions to the problems raised. 4. Solve classroom examples and give class assignments. 5. Field exercises within the university to apply theoretical exercises. 6. Perform the tests specified for the subject the times specified for it. See the sources and books that the subject teacher has to offer 7.				

Student Workload (SWL)				
weeks15 The child's pregnancy galculated for				
Structured SWL (h/sem)	63	Structured SWL (h/w)	6.2	
Regular pregnancy of the student during the semester	US	Regular pregnancy for the student weekly	0.2	

	Unstructured SWL (h/sem)	82	Unstructured SWL (h/w)	5.5
Regular pregnancies of the student during the			Regular pregnancies for the student weekly	
	semester			
	Total SWL (h/wk)		175	
	The pregnancy is the		1/3	

	Module Evaluation Course Evaluation				
		Time/Numb there	Weight (Marks)	Week Due	Relevant Learning Outcome
	Quizzes	2	10% (10)	5 , 10	in #3, 4, 5 and 6
Formative	Assignments	5	5% (5)	14	in #3, 4,5,6 and 7
assessment	Projects / Lab.	15	15% (15)	Continuous	All
	Online Assignments	1	10% (10)	Continuous	All
Summative	Midterm Exam	2hr	20% (20)	7	LO #1 - 5
assessment	Final Exam	3hr	40% (40)	16	All
Total assessment			100% (100 Marks)		

	Delivery Plan (Weekly Syllabus)				
	g urriculum				
	Material Covered				
Week 1	Introduction and Instruments				
Week 2	Letters of Intent				
Week 3	Principles of putting dimensions: Basic dimensions, the true dimensions, extension lines, lines of dimension				
Week 4 to Week 6	Geometric construction: Draw an arc touches two intersecting lines, draw arc touches two brackets, draw an arc touches a straight and passes a point, draw an ellipse, draw a hexagon, draw the quinary, draw shape with eight faces, sketching inverted arc, identify points of contact.				

Week 7 to	Projections:			
9	The theory of projection, the projection lines, oblique projection level, the vertical			
3	projection system,			
	multiple projections, conclusion the third projected, draw curves and oblique surfaces			
	on the projections			
	Isometric:			
Week 10	Projection by the first even angles, projection by the third even angles, draw circles on			
to 11	dimensional			
10 11	figure, draw oblique surfaces on dimensional figure, Isometric drawing and its			
	application			
Week 12	Sections:			
to 13	Introduction, types of sections and symmetrical sections, cutting lines, double sections,			
10 15	elevations sectioned, shapes sectioned			
	CAD Drawing:			
Mook 14	Introduction to AutoCAD software, control page in AutoCAD software, types of coordinate, the			
Week 14	command line and applications, the modified commands, the help orders in drawing, the commands			
to 15	circle, rectangle, offset, the command layers' array, scale and aligned, the command arc with all			
	options, the command polyline with options, types of dimensions with application examples, the			
	command text and its types, preparing and printing options with examples.			

	Learning and Teaching Resources			
Learning and Teaching Resources				
Text Available in the Library?				
Required Texts	Drawing India by the author Abdul Rasoul Al-Khafaf	Yes		
Recommended	Interpreting Engineering Drawings, Jensen, C.H. and Helsel,	Yes		
Texts	G.D., 7th ed., Thomson Delmar Learning, 2007	res		

Grading Scheme Grading chart				
Group Grade		Appreciation	Marks %	Definition
	A - Excellent	privilege	90 - 100	Outstanding Performance
6 6	B - Very Good	Very good	80 - 89	Above average with some errors
Success Group (50 - 100)	C - Good	Good	70 - 79	Sound work with notable errors
(50 - 100)	D - Satisfactory	medium	60 - 69	Fair but with major shortcomings
	E - Sufficient	popular	50 - 59	Work meets minimum criteria
Group File	FX – File	processing) in(Deposit	(45-49)	More work required but credit awarded
(0 – 49)	F – Fail	Failure	(0-44)	Considerable amount of work required

Note: Marks Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.