

	<p>Ministry of Higher Education and Scientific Research - Iraq</p> <p>University of Warith Al_Anbiyaa College of Engineering Civil Engineering Department</p>	
---	---	---

## MODULE DESCRIPTOR FORM

### Module Information

<b>Module Title</b>	ENGINEERING DRAWING		<b>Module Delivery</b>	
<b>Module Type</b>	BASIC		<b>Theory</b> <b>lecture</b> <b>lab</b> <b>practical</b>	
<b>Module Code</b>	ENG014			
<b>ECTS Credits</b>	5			
<b>SWL (hr/sem)</b>	125			
<b>Module Level</b>	1	<b>Semester of Delivery</b>	1	
<b>Administering Department</b>	Civil engineering	<b>College</b>	Engineering	
<b>Module Leader</b>	Hibatallah abd alameer	<b>e-mail</b>	<a href="mailto:Hiba.allah@uowa.edu.iq">Hiba.allah@uowa.edu.iq</a>	
<b>Module Leader's Acad. Title</b>	Assistant Lecturer	<b>Module Leader's Qualification</b>	M.Sc.	
<b>Module Tutor</b>		<b>e-mail</b>		
<b>Peer Reviewer Name</b>		<b>e-mail</b>		
<b>Review Committee Approval</b>	2024/9/26	<b>Version Number</b>	1.0	

### Relation With Other Modules

<b>Prerequisite module</b>	None	<b>Semester</b>	1
<b>Co-requisites module</b>	None	<b>Semester</b>	

### Module Aims, Learning Outcomes and Indicative Contents

<b>Module Aims</b>	The module aims to provide students with a solid understanding of the fundamental concepts and techniques of linear algebra. This includes the study of linear equations. Students will also learn how to apply these concepts to solve real-world problems in various fields such as engineering, physics, economics, and computer science. By the end of the module, students should be able to manipulate and analyze mathematical models using linear algebraic tools and communicate their findings effectively.
<b>Module Learning Outcomes</b>	<ol style="list-style-type: none"> <li>1. This course discusses the fundamental concepts of engineering graphics. It gives also an introduction to computer graphics using CAD software. 1 . aimed to covered</li> <li>2. Drawing conventions such as standards, line types and dimensioning</li> <li>3. Drawing of inclined and curved surfaces</li> <li>4. Deducing the orthographic views from a pictorial</li> <li>5. Drawing full and half sections , deducing an orthographic view from given two views</li> <li>6. Pictorial sketching (isometric and oblique)</li> </ol>
<b>Indicative Contents</b>	<p>Recognize the value of engineering graphics as a language of communication.. .</p> <p>Comprehend and deduce orthographic projections of an object.</p> <p>4. Visualize wide variety of objects and drawing the missing views.</p> <p>5. Comprehend and deduce section views. 5</p>
<b>Learning and Teaching Strategies</b>	
<b>Strategies</b>	The main strategy that will be adopted in delivering this module is to encourage students' participation in the exercises, while at the same time refining and expanding their critical thinking skills. This will be achieved through classes, interactive tutorials and by considering types of simple experiments involving some sampling activities that are interesting to the students.

### Student Workload (SWL)

<b>Structured SWL (h/sem)</b>	93	<b>Structured SWL (h/w)</b>	6.0
<b>Unstructured SWL (h/sem)</b>	82	<b>Unstructured SWL (h/w)</b>	5.5
<b>Total SWL (h/sem)</b>	150		

### Module Evaluation

		Time/ Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	Quizzes	2	8 % (8)	5 and 10	LO #3, 4, 5 and 6
	Assignments	1	2 % (2)	14	LO # 3, 4, 5,6 and 7
	Projects / Lab.	15	15% (15)	Continuous	All
	Report	15	15% (15)	Continuous	All
Summative assessment	Midterm Exam	2hr	20% (20)	7	LO # 1-5
	Final Exam	3hr	40% (40)	16	All
Total assessment			100% (100 Marks)		

### Delivery Plan (Weekly Lab. Syllabus)

	Material Covered
Week 1	
Week 2	
Week 3	
Week 4	
Week 5	
Week 6	
Week 7	

### Learning and Teaching Resources

	Text	Available in the Library?
Required Texts	1. New Headway Plus Intermediate Student Book, Liz and Hohn Soars, 2006, Oxford University Press. 2. Writing in Paragraphs, Dorothy E Zemach and Calos Islam, 2010, Macmillan.	yes
Recommended Texts		No
Websites	News - Biomedical Engineering at the University of Michigan (umich.edu) Websites TED-Ed – YouTube BBC Learning English - 6 Minute English	

### Delivery Plan (Weekly Syllabus)

Delivery Plan (Weekly Syllabus)	
	Material Covered
<b>Week 1</b>	Introduction and Instruments
<b>Week 2</b>	Kufic letters1
<b>Week 3</b>	Principles of putting dimensions: Basic dimensions, the true dimensions, extension lines, lines of dimension
<b>Week 4 to 6</b>	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
<b>Week 7 to 9</b>	Projections The theory of projection, the projection lines, oblique projection level, the vertical projection system, multiple projections, conclusion the third projected, draw curves and oblique surfaces on the projections
<b>Week 10 to 11</b>	Isometric Projection by the first even angles, projection by the third even angles, draw circles on dimensional figure, draw oblique surfaces on dimensional figure, Isometric drawing and its application
<b>Week 12</b>	Sections: Introduction, types of sections and symmetrical sections, cutting lines, double sections, elevations sectioned, shapes sectioned
<b>Week 13</b>	
<b>Week 14</b>	CAD Drawing Introduction to AutoCAD software, control page in AutoCAD software, types of coordinate, the command line and applications, the modified commands, the help orders in drawing, the commands 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
<b>Week 14</b>	
<b>Week 15</b>	

## APPENDIX:

GRADING SCHEME				
Group	Grade	التقدير	Marks (%)	Definition
Success Group (50 - 100)	A - Excellent	امتياز	90 - 100	Outstanding Performance
	B - Very Good	جيد جدا	80 - 89	Above average with some errors
	C - Good	جيد	70 - 79	Sound work with notable errors
	D - Satisfactory	متوسط	60 - 69	Fair but with major shortcomings
	E - Sufficient	مقبول	50 - 59	Work meets minimum criteria
Fail Group (0 - 49)	FX – Fail	مقبول بقرار	(45-49)	More work required but credit awarded
	F – Fail	راسب	(0-44)	Considerable amount of work required

## Note:

NB 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.

