MODULE DESCRIPTOR FORM

نموذج وصف المادة الدراسية

Module Information معلومات المادة الدراسية			
Module Title	***Engineering Drawing***	**Module Delivery**	
Module Type	***CORE***	**Theory** **Lecture** **Practical**	
Module Code	***UOMU023012***		
ECTS Credits	4		
SWL (hr/sem)	100		
Module Level	1	**Semester of Delivery**	1
Administering Department	Building and construction techniques	**College**	Al-Mustaqbal university
Module Leader	Tamar Maitham Al-Asedi	**e-mail**	Tamar.Maitham.Abdulwahabb@uomus.edu.iq
Module Leader's Acad. Title	**Assistant Lecturer**	**Module Leader's Qualification**	*None*
Module Tutor	*None*	**e-mail**	*None*
Peer Reviewer Name		**e-mail**	
Review Committee Approval	01/06/2023	**Version Number**	1.0

Relation With Other Modules			
العلاقة مع المواد الدراسية الأخرى			
Prerequisite module	None	**Semester**	
Co-requisites module	None	**Semester**	

Module Aims, Learning Outcomes and Indicative Contents	
أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية	
Module Aims أهداف المادة الدراسية	*Introducing the fundamentals of engineering drawing to the student so that he can be qualified to express his thoughts, draw & execute the projects related to civil engineering; As well as aims to:* *1- Assisting requester in experimenting and creating their design ideas in the two-dimensional environment of architectural drawing and design programs with the help of a computer.* *2-Take advantage of the technologies provided by AutoCAD to complete many graphic operations quickly and with greater accuracy and present them in a professional manner.* *3-Teaching the requester how to use the devices associated with the regular drawing programs, and training students to import and export drawings to other compatible programs and how to integrate them with other information for engineering projects.*
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	*1- Knowledge of commands and instructions in the AutoCAD program and how to use them correctly.* *2- The student's ability to understand and apply the basics of engineering drawing.* *3- Reading, disassembling and assembling geometric shapes through drawing and projection methods.*

	4- *Developing the student's skill in using the AutoCAD program in drawing engineering shapes.* 5- *Developing the student's engineering imagination through deducing the projections and sections of each geometric solid and realizing its dimensions.*
Indicative Contents المحتويات الإرشادية	*Indicative content includes the following:* 1- *Knowing the commands and directives and conducting auxiliary exercises to apply them in their correct form to increase his ability to absorb the material and to communicate with the most important ideas presented by the material through the Internet.* 2- *Going to implement an engineering design with all its recognized requirements in the field of work, which reflect the skills through designing engineering plans that meet the details and dimensions that can be implemented on the ground.* 3- *Applications to various engineering processes.* 4- *Auxiliary exercises that the student presents by applying and delivering them as a participatory work to increase his ability to absorb the material.* 5- *Going to implement an engineering design with all its recognized requirements in the field of work, which reflect the skills through designing engineering plans that meet the details and dimensions that can be implemented on the ground.*
	Learning and Teaching Strategies استراتيجيات التعلم والتعليم
Strategies	*The strategy includes the following:* 1- *Students' awareness of concepts and basics in interior design.* 2- *Applications to various engineering processes.*

3- *Use different websites to learn more about engineering drawing.*
4- *Training the student to read, disassemble, and assemble geometric shapes through the methods of drawing, projection, and sections, and in this expansion of his geometric imagination, because he recognizes the hidden parts in each geometric figure.*
5- *Training the student to draw different geometric shapes and employing them in the engineering painting, each in its appropriate location.*
6- *Introducing the student to the basic principles of engineering drawing, drawing parts and assembling them using projections. And all the necessary information to accurately describe the true shape of the desired object. In addition, engineering drawing is taught using the AutoCAD program.*

Student Workload (SWL)			
الحمل الدراسي للطالب			
Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	78	Structured SWL (h/w) الحمل الدراسي المنتظم للطالب أسبوعيا	78/15 =5.2
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	22	Unstructured SWL (h/w) الحمل الدراسي غير المنتظم للطالب أسبوعيا	22/15 =1.5
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	100		

Module Evaluation					
تقييم المادة الدراسية					
		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	Quizzes		10% (10)	5, 10	LO #1, 2, 10 and 11
	Assignments		10% (10)	2, 12	LO # 3, 4, 6 and 7

	Projects / Lab.		10% (10)	Continuous	
	Report		10% (10)	13	LO # 5, 8 and 10
Summative assessment	**Midterm Exam**	2 hr	10% (10)	7	LO # 1-7
	Final Exam	3 hr	50% (50)	16	All
Total assessment			100% (100 Marks)		

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Delivery Plan (Weekly Syllabus) المنهاج الاسبوعي النظري

	Material Covered
Week	**Syllabus**
1	*Introduction to defined the engineering drawing and introduction about AutoCAD software in engineering drawing.* *Windows setting, limits, grid, snap, object snap*
2	*Draw menu, line, polyline, ray, construction line.* *Polygon, arc, circle, rectangle, ellipse, hatch.*
3&4	*Modify (move, copy, stretch, rotate, mirror, scale).* *Modify (trim, fillet, array, erase, explode, offset).*
5	*Annotation (dimension, liner, leader, table)*
6&7	*Text, Layers* *properties, match properties, by layer.*
8	*The first and third angle projection method*
9&10	*Draw the projection with the first angle projection method.*
11	*Drawing the projection with the third angle projection method.*
12	*Drawing the three projections with the first and third angle.*
13	*Drawing the three projections with the first and third*

	angle and see the difference between them.
14&15	*Isometric.*
16	*Final exam*

Learning and Teaching Resources		
مصادر التعلم والتدريس		
	Text	**Available in the Library?**
Required Texts	1- *engineering drawing.* *Abdul Rasul Al-Khafaf*	Yes
Recommended Texts	1-*AutoCAD basics.* *Assistant teacher* علي مهدي مفتن 2- *Basics of AutoCAD 2020.* احمد نظام محمد شكر 3- *Computer aided drawing.* *General Administration of Curriculum Design and Development.*	
Websites	1- *Mustafa Ali channel.* 2- *Khaled Ibrahim Abu Hadid Channel.* 3- *Graphic designer channel.* 4- *Fundamentals of drawing in AutoCAD* *Eng. Amal*	

APPENDIX:

GRADING SCHEME				
مخطط الدرجات				
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	**FX** – Fail	مقبول بقرار	(45-49)	More work required but credit awarded

(0 – 49)	**F – Fail**	راسب	(0-44)	Considerable amount of work required

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.

ملاحظة: هذا النموذج تم وضعه وتقديمه من قبل مديرية ضمان الجودة في وزارة التعليم العالي والبحث العلمي