	Ministry of Higher Education and Scientific Research - Iraq Al-Mustaqbal University College of Engineering Department of Prosthetics and Orthotics Engineering	

MODULE DESCRIPTOR FORM
نموذج وصف المادة الدراسية

Module Information معلومات المادة الدراسية					
Module Title	الرسم الهندسي			**Module Delivery**	
Module Type	BASIC			☒ **Theory** ☐ **Lecture** ☒ **Lab** ☐ **Tutorial** ☐ **Practical** ☐ **Seminar**	
Module Code	UOMU0103011				
ECTS Credits	6				
SWL (hr/sem)	150				
Module Level	1		**Semester of Delivery**	1	
Administering Department	UOMU0103		**College**	UOMU01	
Module Leader	Ghadeer Haider Abbas		**e-mail**	ghadeer.haider@uomus.edu.iq	
Module Leader's Acad. Title	Asst. Lect.		**Module Leader's Qualification**	MSc.	
Module Tutor					
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	1. Expanding the mental ability to imagine geometric shapes. 2. Controlling the practical aspects of the course through laboratory sessions. 3. Introducing students to engineering designs and their importance in manufacturing products 4. To familiarize the students with the basics of Engineering drawing. To enable the students, understand the elements of 3D visualization. 5. Introduce students to the techniques of technical graphics so that the design ideas can be communicated and produced. 6. Introduce students to visual and written standard requirements related to the industry. 7. To understand and interpret any form of engineering drawings. 8. To draw an object from different perspective views.		
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	On completion of this course students will be able to: 1- The ability to read and analyze design maps 2- The ability to represent engineering designs and transfer them to reality 3- Students are able to understand the description any graphics design> 4- Learn and familiarize with common drawing notations. 5- Familiarize with development and Intersections of basic geometric models. 6- Students will be able to produce working drawings according to the industry requirement. 7- Students will be able to draw the needed views of assembly drawings showing all the details. Students will be able to apply technical graphic principles to many engineering applications.		
Indicative Contents المحتويات الإرشادية	Indicative content includes the following. Part A – introduction to graphics styles Lines, font, types of papers, tools. Part B – Drawing techniques		

	Identify Drawing Sheets, sketching by hand, Sketching by tools. Part C – Engineering Operation and 2D Drawing Applications. Part D – Projection's techniques and Orthographic Projection Applications. Part E – 3D drawing styles and practices. Views and Isometric Drawing

Learning and Teaching Strategies
استراتيجيات التعلم والتعليم

Strategies	1. Speed and accuracy of decision making. 2. Provision of detailed explanation in class on the topic. 3. Provision of adequate illustration on the board with the aid of a projector. 4. Making lecturing periods interactive and complimentary it with practical work. 5. Educational websites 6. Giving the students class work during the lecture period. 7. Giving take-home assignments at the end of each lecture.

Student Workload (SWL)
الحمل الدراسي للطالب

Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	63	**Structured SWL (h/w)** الحمل الدراسي المنتظم للطالب أسبوعيا	4
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	87	**Unstructured SWL (h/w)** الحمل الدراسي غير المنتظم للطالب أسبوعيا	5
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	150		

Module Evaluation
تقييم المادة الدراسية

		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	Quizzes	4	10% (10)	3, 5,7,11	LO #3, 5, 7 and 11
	Assignments	14	10% (10)	Continuous	All
	Projects / Lab.	15	10% (10)	Continuous	All
	Report				
Summative assessment	Midterm Exam	3 hr	20% (20)	7-8	LO # 1-7
	Final Exam	3hr	50% (50)	16	All
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus)
المنهاج الاسبوعي النظري

	Material Covered	
Week 1	Introduction	مقدمة عن الرسم الهندسي والأدوات الواجب توفرها
Week 2	lines, lettering, geometric shapes and their features	أنواع الخطوط، الاشكال الهندسية ومميزاتها
Week 3	Sheet preparation, drawing starting	تهيئة لوحة الرسم، كيفية البدء بالرسم الهندسي
Week 4	Engineering operations 1	1- العمليات الهندسية
Week 5	Engineering operations2	2- العمليات الهندسية
Week 6	Engineering operations 3	3- العمليات الهندسية
Week 7	Engineering operations exercises	تمارين جامعة للعمليات الهندسية
Week 8	Projection Theory	نظرية الاسقاط
Week 9	Orthographic Projection 1	المساقط
Week 10	Orthographic Projection 2	2- المساقط
Week 11	Dimensioning	الابعاد
Week 12	Class Exercises	تمارين إضافية
Week 13	Sectional views 1	1- المساقط المقطوعة
Week 14	Sectional views 2	2- المساقط المقطوعة
Week 15	Isometric Drawing	الرسم المجسم

Delivery Plan (Weekly Lab. Syllabus) المنهاج الاسبوعي للمختبر	
	Material Covered
Week 1	
Week 2	
Week 3	
Week 4	
Week 5	
Week 6	
Week 7	
Week 8	
Week 9	
Week 10	
Week 11	
Week 12	
Week 13	
Week 14	
Week 15	

Learning and Teaching Resources مصادر التعلم والتدريس		
	Text	**Available in the Library?**
Required Texts	الرسم الهندسي للمؤلف (عبد الرسول الخفاف)	Yes
Recommended Texts		No
Websites		

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 (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:

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.

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