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

MODULE DESCRIPTOR FORM

Module Information

Module Title	ENGINEERING MECHANICS		**Module Delivery**	
Module Type	BASIC		**Theory lecture**	
Module Code	CIV024			
ECTS Credits	8			
SWL (hr/sem)	200			
Module Level	1	**Semester of Delivery**	2	
Administering Department	Civil engineering	**College**	Engineering	
Module Leader	Israa Hasan Nayel	**e-mail**	israa.nayel@uowa.edu.iq	
Module Leader's Acad. Title	Assist prof. doctor	**Module Leader's Qualification**	PhD	
Module Tutor		**e-mail**		
Peer Reviewer Name		**e-mail**		
Review Committee Approval	2024/9/26	**Version Number**	1.0	

Relation With Other Modules

Prerequisite module	Physics	**Semester**	1
Co-requisites module	None	**Semester**	

Module Aims, Learning Outcomes and Indicative Contents

Module Aims	1. Understanding the fundamental of geometric properties of shapes. 2. Developing a foundation in truss and friction analysis that students can build upon in future studies.
Module Learning Outcomes	1. Analyzing of truss structures. 2. Finding the centroids of lines, areas and volumes. 3. Finding the centroids of composite shapes. 4. Finding the moment of inertia of single shapes. 5. Finding the moment of inertia of composite shapes. 6. Finding the product of inertia of single shapes. 7. Finding the product of inertia of composite shapes. 8. Understanding friction problems.
Indicative Contents	Indicative content includes the following. - The fundamental concepts necessary forces analysis of trusses. - The properties of shapes - The friction problems.

Learning and Teaching Strategies

Strategies	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 type of simple experiments involving some sampling activities that are interesting to the students.

Student Workload (SWL)

Structured SWL (h/sem)	93	**Structured SWL (h/w)**	6
Unstructured SWL (h/sem)	107	**Unstructured SWL (h/w)**	7
Total SWL (h/sem)	200		

Module Evaluation

		Time/ Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	**Quizzes**	2	10% (10)	5, 10	LO #1-3
	Assignments	2	10% (10)	2, 12	LO # 1-3
	Projects / Lab.	1	10% (10)	Continuous	All

	Report	1	10% (10)	13	LO # 2-4
Summative assessment	**Midterm Exam**	2 hr	10% (10)	7	LO # 1
	Final Exam	3hr	50% (50)	16	All
Total assessment			100%(100)		

Delivery Plan (Weekly Syllabus)

	Material Covered
Week 1	Introduction to trusses
Week 2	Analyzing trusses
Week 3	Examples on trusses
Week 4	Friction
Week 5	Examples on frictions
Week 6	Centroid of lines
Week 7	Mid-term Exam + Centroid of areas
Week 8	Centroid of composite areas
Week 9	Moment of inertia of single area
Week 10	Examples on Moment of inertia of single area
Week 11	Moment of inertia of composite area
Week 12	Examples on Moment of inertia of composite area
Week 13	Product of inertia of composite area
Week 14	Examples on Product of inertia of composite area
Week 15	Moher circle
Week 16	**Preparatory week before the final Exam**

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
مصادر التعلم والتدريس

	Text	Available in the Library?
Required Texts	Engineering Mechanics: Statics - Hibbeler, Russell	Yes
Recommended Texts	Engineering Mechanics, Andrew Pytel, Jaan Kiusalaas	No
Websites		

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	راسب (قيد المعالجة)	(45-49)	More work required but credit awarded
	F – Fail	راسب	(0-44)	Considerable amount of work required

Note:

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.