## MODULE DESCRIPTION FORM

## نموذج وصف المادة الدراسية

Module Information معلومات المادة الدراسية							
Module Title	Enginee	Static	Modu	ıle Delivery			
Module Type	С				☑ Theory		
Module Code	ATU12025				☐ Lecture ☐ Lab ☑ Tutorial		
ECTS Credits	8						
SWL (hr/sem)	200				<ul><li>□ Practical</li><li>□ Seminar</li></ul>		
Module Level		1	Semester o	Semester of Delivery		1	
Administering Department		ATU12	College PMTE				
Module Leader			e-mail				
Module Leader's Acad. Title			Module Leader's Qualification		alification	Ph.D.	
Module Tutor			e-mail	E-mail			
Peer Reviewer Name			e-mail				
Scientific Committee Approval Date		01/06/2023	Version Number 1.0				

Relation with other Modules					
العلاقة مع المواد الدراسية الأخرى					
Prerequisite module	Mathematics	Semester	1st		
Co-requisites module		Semester			

Modu	Module Aims, Learning Outcomes and Indicative Contents					
أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية						
Module Objectives أهداف المادة الدراسية	The student can use the knowledge of Engineering Mechanics (Statics) for analyzing force systems (structures, machines, framesetc.), in order to became able to design components and finally the systems as a whole in the next years.					
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	<ol> <li>Knowing how to calculate rectangular components, moment, couple and resultant.</li> <li>The Student can apply equilibrium equations to find forces - and or - reaction that maintain the state of equilibrium to the structures.</li> <li>Learning the ability to analyze truss structures, using method of joints and method of sections.</li> <li>The student can calculate the forces in frames and machines.</li> </ol>					

Learning and Teaching Strategies استر اتیجیات التعلم و التعلیم				
Strategies	Type something like: 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) الحمل الدراسي للطالب محسوب لـ ١٥ اسبو عا				
Structured SWL (h/sem)         Structured SWL (h/w)           الحمل الدر اسي المنتظم للطالب أسبو عيا         الحمل الدر اسي المنتظم للطالب خلال الفصل				
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	77	Unstructured SWL (h/w) الحمل الدراسي غير المنتظم للطالب أسبوعيا		
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	200			

Module Evaluation تقييم المادة الدر اسية							
	Time/Number Weight (Marks) Week Due Relevant Learning Outcome						
	Quizzes	2	20% (20)	5 and 12	LO #1, #2 and #3, #4		
Formative	Assignments	2	10% (10)	4 and 11	LO #1, #2 and #3		
assessment	Projects / Lab.	-	-	-	-		
	Report	1	10% (10)	14	LO #1, #2 and #3		
Summative	Midterm Exam	2hr	10% (10)	7	LO #1 and #2		
assessment	Final Exam	3hr	50% (50)	16	All		
Total assessm	ent		100% (100 Marks)				

Delivery Plan (Weekly Syllabus)				
المنهاج الاسبوعي النظري				
	Material Covered			
Week 1	Basic Concepts, Scalars and Vectors, Units Conversion.			
Week 2	Two-Dimensional Force Systems-Rectangular Components			
Week 3	Two-Dimensional Force Systems-Moment and Couple			
Week 4	Two-Dimensional Force Systems-Resultant			
Week 5	Three-Dimensional Force systems-Rectangular Components			
Week 6	Three-Dimensional Force Systems-Moment and Couple			
Week 7	Mid-term Exam.			
Week 8	Three-Dimensional Force Systems-Resultant			
Week 9	Two-Dimensional Equilibrium, F.B.D., Equilibrium Conditionsetc.			

Week 10	Three-Dimensional Equilibrium, F.B.D., Equilibrium Conditionsetc.
Week 11	Structures, Plane Trusses, Method Of Joints
Week 12	Structures, Plane Trusses, Method Of Sections
Week 13	Structures, Space Trusses
Week 14	Structures, Frames and Machines
Week 15	Review
Week 16	Preparatory week before the final Exam

Delivery Plan (Weekly Lab. Syllabus)				
	المنهاج الاسبوعي للمختبر			
	Material Covered			
Week 1	Lab 1: -			
Week 2	Lab 2: -			
Week 3	Lab 3: -			
Week 4	Lab 4: -			
Week 5	Lab 5: -			
Week 6	Lab 6: -			
Week 7	Lab 7: -			

Learning and Teaching Resources مصادر التعلم والتدريس				
Text Available in the Library?				
Required Texts	ENGINEERING MECHANICS – STATICS, MERIAM and KRAIGE,	Yes		
	Sixth Edition	163		
Recommended	VECTOR MECHANICS FOR ENGINEER – STATICS, BEER and	Yes		
Texts	JOHNSON, Ninth Edition	163		
Websites	https://www.youtube.com/@alaaaljassani6779/videos			

Grading Scheme مخطط الدر جات						
Group Grade التقدير Marks % D			Definition			
	A - Excellent	امتياز	90 - 100	Outstanding Performance		
6 6	<b>B</b> - Very Good	جيد جدا	80 - 89	Above average with some errors		
Success Group (50 - 100)	<b>C</b> - Good	ختز	70 - 79	Sound work with notable errors		
(30 - 100)	<b>D</b> - Satisfactory	متوسط	60 - 69	Fair but with major shortcomings		
	E - Sufficient	مقبول	50 - 59	Work meets minimum criteria		
Fail Group	<b>FX</b> – Fail	راسب (قيد المعالجة)	(45-49)	More work required but credit awarded		
(0 – 49)	<b>F</b> – 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.