

## Course Weekly Outline

Course Instructor	Fadya Saddi kallak				
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Title	Engineering Mechanics				
Course Coordinator	Theory				
Course Objective	Teaching the engineering mechanics				
Course Description	Studying the concepts of engineering mechanics and applications in statics and dynamics				
Textbook	ENGINEERING MECHANICS ger				
References	ENGINEERING MECHANICS Hibbeler 10th edition , 2005				
Course Assessment	Term Tests (35%)	Laboratory	Quizzes (5%)	Project ----	Final Exam (60%)
General Notes					

## Course Weekly Outline

week	Date	Topics Covered	Lab. Experiment Assignments	Notes
1 <sup>st</sup> Semester				
Chapter One: Force Resultant				
1.	4/12/2016	General concepts , Force vectors		
2.	7/12/2016	Forces resultant in plane		
3.	11/12/2016	Parallelogram law		
4.	21/12/2016	Force resolution		
5.	25/12/2016	Force composition		
6.	25/12/2016	Force resultant for noncurrent		
Chapter Two: Moment of Force				
7.	4/1/2017	Moment of force , Resultant of moments		
8.	8/1/2017	Examples		
9.	11/1/2017	Couples , Couples analysis		
10.	15/1/2017	Using of couples in static		
11.	18/1/2017	Using the moment concept to find the resultant of non-concurrent forces		
	22/1/2017	1 <sup>st</sup> Month Exam		
Chapter Three: Equilibrium				
12.	25/1/2017	Equilibrium concept , Free body diagram		
13.	29/1/2017	Equilibrium under forces		



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week	Date	Topics Covered	Lab. Experiment Assignments	Notes
1 <sup>st</sup> Semester				
Chapter Three: Equilibrium				
14.	1/2/2017	Problems in equilibrium		
End of 1 <sup>st</sup> Semester & Starting of Spring Holiday		05 Feb. 17 – 18 Feb. 17		
Chapter Four: Trusses and Frames				
15.	19/2/2017	Trusses		
16.	22/2/2017	Joints and sections methods		
17.	26/2/2017	2 <sup>nd</sup> Month Exam		
18.	1/3/2017	Frames		
19.	5/3/2017	Problems in frames		
2 <sup>nd</sup> Semester				
Chapter Five: Friction				
20.	8/3/2017	1 <sup>st</sup> Month Exam		
21.	12/3/2017	Friction		
22.	15/3/2017	Problems in Friction		
23.	19/3/2017	Wedges		
24.	22/3/2017	Problems in Wedges		

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week	Date	Topics Covered	Lab. Experiment Assignments	Notes
2 <sup>nd</sup> Semester				
Chapter Six: Centroids				
25.	26/3/2017	Centroids		
26.	29/3/2017	Centroid by integration		
27.	2/4/2017	Problems		
28.	5/4/2017	Centroids for combined areas		
29.	9/4/2017	problems		
2 <sup>nd</sup> Semester				
Chapter Seven: Moment of Inertia				
30.	12/4/2017	Concept of Moment of inertia		
31.	16/4/2017	Moment of inertia by integration		
32.	19/4/2017	problems		
33.	23/4/2017	Moment of inertia for combined areas		
34.	26/4/2017	problems		
35.	30/4/2017	Exercises		
	3/5/2017	2 <sup>nd</sup> Month Exam		
36.	7/5/2017	Product of inertia of an area		
37.	10/5/2017	problems		
38.	14/5/2017	Moment of inertia for an area about inclined axes		



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39.	17/5/2017	problems		
2 <sup>nd</sup> Semester				
Chapter eight: Dynamic				
40.	21/5/2017	kinematics		
41.	24/5/2017	projectiles		
42.	28/5/2017	kinetics		

Instructor Signature

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