

AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title Physics I									
Course Code	FİZ161	Couse	Level	First Cycle (Bachelor's Degree)					
ECTS Credit 5	Workload 124	4 (Hours) Theor	у 3	Practice	0	Laboratory	0		
Objectives of the Course To teach the fundamental topics in the field of mechanics and dynamics.									
Course Content Motion in one dimension, laws of motion, Momentum and collisions, thermodynamics, fluid mechanics					hanics.				
Work Placement N/A									
Planned Learning Activities and Teaching Methods Explanation (Presentation), Discussion									
Name of Lecturer(s) Assoc. Prof. Melis GÖKÇE, Lec. Onur GENÇ, Lec. Şerife Gökçe ÇALIŞKAN, Prof. Aytaç Gürhan GÖKÇE									

Assessment Methods and Criteria						
Method	Quantity					
Midterm Examination	1	40				
Final Examination	1	70				

Reco	Recommended or Required Reading					
1	. Serway, Physics I					
2	Young ve Freedmann, University Physics I					

Week	Weekly Detailed Course Contents						
1	Theoretical	Physics and Measurement					
2	Theoretical	Motion in one Dimension					
3	Theoretical	Vectors					
4	Theoretical	Motion in two Dimensions					
5	Theoretical	The Laws of Motion					
6	Theoretical	Circular Motion and Other Applications of Newton's Laws					
7	Theoretical	Conservation of Energy					
8	Intermediate Exam	Midterm exam					
9	Theoretical	Linear Momentum and Collisions					
10	Theoretical	Rotation of a Rigid Object About a Fixed Axis					
11	Theoretical	Angular Momentum					
12	Theoretical	Static Equilibrium and Elasticity					
13	Theoretical	Universal Gravitation.					
14	Theoretical	Fluid Mechanics					
15	Final Exam	Final Exam					

Workload Calculation							
Activity	Quantity		Preparation	Duration		Total Workload	
Lecture - Theory	15		3	3		90	
Midterm Examination	1		10	2		12	
Final Examination	1		20	2		22	
Total Workload (Hours)							
[Total Workload (Hours) / 25*] = ECTS					5		
*25 hour workload is accepted as 1 ECTS							

Learning Outcomes					
1	To be able to learn the fundamentals of the motion				
2	To be able to learn the fundamentals of the dynamics and to apply them				
3	To be able to learn the fundamentals of work and energy				
4	To be able to learn the fundamentals of angular momentum				



5 To be able to learn the fundamentals of Angular kinematics

6 To be able to learn the fundamentals of the vibrational motion

