

**School of Engineering and Natural Sciences / Computer Engineering (English)**

**2023 - 2024 Academic Year**

**PHYSICS I LAB**

**Syllabus**

<b>Course Description</b>					
<b>Name</b>	<b>Code</b>	<b>Semester</b>	<b>T+A Hour</b>	<b>Credit</b>	<b>ECTS</b>
PHYSICS I LAB	COE1110747	Fall Semester	0+2	1	2
<b>Prerequisites Courses</b>					
<b>Recommended Elective Courses</b>					
<b>Language of Instruction</b>	English				
<b>Course Level</b>	First Cycle (Bachelor's Degree)				
<b>Course Type</b>	Required				
<b>Course Coordinator</b>	Assoc.Prof. Muhammed Fatih TOY				
<b>Name of Lecturer(s)</b>	Lect. Sultan YILDIZ, Assist.Prof. Mustafa AKTAN				
<b>Assistant(s)</b>	Teaching Assistants				
<b>Aim</b>	To support and deepen theoretical knowledge with general physics (mechanics) experiments				
<b>Course Content</b>	This course contains; Motion Along a Straight Line ,Projectile Motion,Hooke's Law,Conservation of Momentum,Rotational Motion,Simple Pendulum.				
<b>Course Learning Outcomes</b>			<b>Teaching Methods</b>	<b>Assessment Methods</b>	
Draws and interprets graphs			17	E	
Explains the movement of objects experimentally using laws of physics			17	E	
Analyze measurements			17	E	
Compares experiment results with theory and offers interpretation			17	E	
Discusses experiment results			17	E	
<b>Teaching Methods</b>	17: Experimental Technique				
<b>Assessment Methods</b>	E: Homework				
<b>Lecture Schedule</b>					
<b>Sequence</b>	<b>Topics</b>	<b>Preliminary Preparation</b>			
1	Motion Along a Straight Line	Reading the experiment manual- experiment 1			
2	Projectile Motion	Reading the experiment manual- experiment 2			
3	Hooke's Law	Reading the experiment manual- experiment 3			
4	Conservation of Momentum	Reading the experiment manual- experiment 4			
5	Rotational Motion	Reading the experiment manual- experiment 5			
6	Simple Pendulum	Reading the experiment manual- experiment 6			
<b>Evaluation Methods</b>		<b>Weight(%)</b>			
Midterm Exam		30			
General Exam		70			

<b>Resources</b>
Istanbul Medipol University - General Physics 1 - Experiment Manual