

School of Engineering and Natural Sciences / Industrial Engineering (English)

2023 - 2024 Academic Year

PHYSICS I LAB

Syllabus

Course Description					
Name	Code	Semester	T+A Hour	Credit	ECTS
PHYSICS I LAB	IND1110747	Fall Semester	0+2	1	2
Prerequisites Courses					
Recommended Elective Courses					
Language of Instruction	English				
Course Level	First Cycle (Bachelor's Degree)				
Course Type	Required				
Course Coordinator	Assoc.Prof. Muhammed Fatih TOY				
Name of Lecturer(s)	Lect. Sultan YILDIZ, Assist.Prof. Mustafa AKTAN				
Assistant(s)	Teaching Assistants				
Aim	To support and deepen theoretical knowledge with general physics (mechanics) experiments				
Course Content	This course contains; Motion Along a Straight Line ,Projectile Motion,Hooke's Law,Conservation of Momentum,Rotational Motion,Simple Pendulum.				
Course Learning Outcomes			Teaching Methods	Assessment Methods	
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	
Teaching Methods	17: Experimental Technique				
Assessment Methods	E: Homework				
Lecture Schedule					
Sequence	Topics	Preliminary Preparation			
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			
Evaluation Methods		Weight(%)			
Midterm Exam		30			
General Exam		70			

Resources

Istanbul Medipol University - General Physics 1 - Experiment Manual