

Fizik Bölümü / PHYSICS /						
Course Code	Course Name	Teorical	Practice	Laboratory	Credits	ECTS
FZK-1003	Physics I Laboratory (Mechanics)	0.00	4.00	0.00	2.00	4.00
Course Detail						
Course Language	: Turkish					
Qualification Degree	: Bachelor					
Course Type	: Compulsory					
Preconditions	: Not					
Objectives of the Course	: The aim of this course is to make some basic applications and experiments in mechanics to help in understanding the Physics I (Mechanics) course. Other aims of the course are to teach measurement and graphing, to show which mechanisms are set up to obtain the desired data and to show the stages in the experiment, and to teach to write and interpret the results obtained.					
Course Contents	: The content of the course includes the following topics: Experiment report preparation, Units, Experimental errors, Graph drawing, Experiment1- Uniform linear motion with constant velocity, Experiment2- Uniform linear motion with constant acceleration and motion in the plane, Experiment3- Newton's laws of motion and application with Atwood machine, Experiment4-The Simple pendulum , Experiment5-Collisions and conservation of linear momentum, Experiment6- Circular motion.					
Recommended or Required Reading	: (1) Physics I Laboratory Book. Çanakkale Onsekiz Mart University, Faculty of Arts and Sciences, Department of Physics. (2) Serway, R. A. : 1992, Physics For Scientists&Engineers with Modern Physics, Third edition, Saunders Golden Sunburst Series, Saunders College Publishing (3) Halliday, D., Robert, R. And Walker, J.: 1993, Fundamentals of Physics, Fourth edition, John Wiley & Sons, Inc.					
Planned Learning Activities and Teaching Methods	: Lecturing, application/practice and experiment.					
Recommended Optional Programme Components	: -					
Course Instructors	: Doç. Dr. Filiz Kahraman Aliçavuş					
Instructor's Assistants	: -					
Presentation Of Course	: Face to face					

Course Outcomes	
Upon the completion of this course a student :	
1	Experimentally proves some fundamental laws of physics
2	Gains dexterity in using experiment equipment in physics experiments
3	Learns to receive data in experiments and interprets the results
4	Learns units and performs measurements, can draw graphs
5	Can write a report describing the experimental work from start to finish
6	Can work individually
7	Can do group work

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