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	<ul> <li>The aim of this course is to make some basic applications and experiments in mechanics to help in understanding the Physics I (Mechanics) course 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 stage experiment, and to teach to write and interpret the results obtained.</li> </ul>										
Course Contents	: The content of the course includes the following topics: Experiment report preparation, Units, Experimental errors, Graph drawing, Experiment1- Uniform li 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 Require Reading	nended or Required       : (1) Physics I Laboratory Book. Çanakkale Onsekiz Mart University, Faculty of Arts and Sciences, Department of Physics. (2) Serway, R. A. : 1992, Phy         J       Scientists&Engineers with Modern Physics, Third edition, Saunders Golden Sunburst Series, Saunders College Publishing (3) Halliday, D., Robert, R.         Walker, J.: 1993, Fundamentals of Physics, Fourth edition, John Wiley & Sons, Inc.										
Planned Learning Activitie Teaching Methods	es and : 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 fun	damental laws of physics										
2 Gains dexterity in using experim	ent equipment in physics experiments										
3 Learns to receive data in experir	nents and interprets the results										
4 Learns units and performs mea	surements, can draw graphs										
5 Can write a report describing the	e experimental work from start to finish										
6 Can work individually											
7 Can do group work											

Preconditions Course Code **Course Name** Teorical Practice Laboratory Credits

ECTS

Weekly	Contents
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	Teorical	Practice	Laboratory	Preparation Info	Teaching Methods
1.Week				*Preliminary information about the course, what is required and rules to be followed	
2.Week				*What is the experiment report and how should it be prepared?	
3.Week				*Units in physics: SI and CGS unit systems, unit conversions and unit analysis	
4.Week				*Measurement, measurement errors, significant figures and related error calculations	
5.Week				*Using of millimeter paper and plotting the graph	
6.Week			*Experiment1- Uniform linear motion with constant velocity		
7.Week			*Experiment2- Uniform linear motion with constant acceleration and motion in the plane		
8.Week			*Experiment3- Newton's laws of motion and application with Atwood machine		
9.Week			*Homework-1		
10.Week			*Experiment4-The Simple pendulum		
11.Week			*Experiment5-Collisions and conservation of linear momentum		
12.Week			*Experiment6-Circular motion		
13.Week			*Make-up Class		
14.Week			*Review of the term and the final assessment		

Assesment Methods %

1 Assignment 1 : 40.000

2 Final : 60.000

ECTS Workload

Activities	Count	Time(Hour)	Sum of Workload						
Report Writing	6	3.00	18.00						
Laboratory	8	4.00	32.00						
Individual study before lecture	11	2.00	22.00						
Küçük Grup Çalışması	6	3.00	18.00						
Preparation for quizzes	3	2.00	6.00						
Preliminary Study	5	4.00	20.00						
		Total	: 116.00						
	Sum of Workload / 30 ( Hour )								
		ECTS	CTS: 4.00						

Program And OutcomeRelation

	P.O. 1	P.O. 2	P.O. 3	P.O. 4	P.O. 5	5 P.O. 6	P.O. 7	P.O. 8	P.O. 9	P.O. 10	P.O. 11	P.O. 12	P.O. 13	P.O. 14	P.O. 15	P.O. 16	P.O. 17	P.O. 18	P.O. 19	P.O. 20	P.O. 21	P.O. 22	P.O. 23	P.O. 24
L.O. 1	5	4	4	5	4	4	5	5	3	5	4	4	4	3	2	0	0	0	0	0	0	0	0	0
L.O. 2	4	5	4	5	4	3	5	4	3	5	4	3	4	4	2	0	0	0	0	0	0	0	0	0
L.O. 3	5	5	5	5	4	5	5	4	5	5	4	3	4	4	2	0	0	0	0	0	0	0	0	0
L.O. 4	3	4	5	5	4	3	4	3	4	5	4	3	4	3	3	0	0	0	0	0	0	0	0	0
L.O. 5	5	4	4	5	3	4	4	3	5	4	4	4	4	3	2	0	0	0	0	0	0	0	0	0
L.O. 6	5	4	4	5	4	4	4	4	4	4	4	4	4	4	2	0	0	0	0	0	0	0	0	0
L.O. 7	5	5	5	5	5	5	5	5	5	5	5	5	5	4	2	0	0	0	0	0	0	0	0	0
4																								►

Ders	Ders/Program Çıktıları İlişkisi																								
P.O.	1 P.O. 2	P.O. 3	P.O. 4	P.O. 5	P.O. 6	P.O. 7	P.O. 8	P.O. 9	P.O. 10	P.O. 11	P.O. 12	2 P.O.	13 P.O.	14 P.C	. 15 P	O. 16	6 P.O. 1	7 P.O. 1	8 P.O. ′	19 P.O. 20	P.O. 21	P.O. 22	P.O. 23	P.O. 24	P.O. 2
4	4	5	5	4	4	4	3	4	4	4	4	4	3		2	0	0	0	0	0	0	0	0	0	0
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