PHYSICS									
1	Course Title:	PHYSICS							
2	Course Code:	FZK1085							
3	Type of Course:	Compulsory							
4	Level of Course:	First Cycle							
5	Year of Study:	1							
6	Semester:	1							
7	ECTS Credits Allocated:	4.00							
8	Theoretical (hour/week):	3.00							
9	Practice (hour/week):	0.00							
10	Laboratory (hour/week):	0							
11	Prerequisites:	None							
12	Language:	Turkish							
13	Mode of Delivery:	Face to face							
14	Course Coordinator:	Dr. Ögr. Üyesi Adnan Kılıç							
15	Course Lecturers:								
16	Contact information of the Course Coordinator:	aysegulk@uludag.edu.tr, 0 224 29 41 777, Doç. Dr. Ayşegül KAHRAMAN, Uludağ Üniversitesi Fen Edebiyat Fakültesi, Fizik Bölümü 16059 Görükle Kampüsü Bursa, Türkiye							
17	Website:								
18	Objective of the Course:	Basic concepts and principles of physics is given clear and logical manner							
19	Contribution of the Course to Professional Development:	The student develops skills to understand and formulate the problem, fundamental factors in solution and to build alternative approaches to solutions through analytical thinking.							
20	Learning Outcomes:								
		1	Understand and use basic concepts and principles of physics problem solving						
		2	Information on the vector and scalar quantities can be obtained						
		3	Newton's laws of motion (1 and 3), and the concept of torque learns						
		4	Learn two-dimensional problem solving and use the laws of motion, Newton's 2nd law						
		5	Movement in one dimension, time, speed and acceleration, and they learn the concepts of use in problem solving						
		6	Movement in two dimensional, time, speed and acceleration, and they learn the concepts of use in problem solving						
		7	Work, energy and power, solve physics problems by using the potential energy and energy conservation						
		8	Learn the subject of linear momentum and collisions						
		9	Learns the concepts of Rigid-body rotation around a fixed axis, rotational motion						
		10	Angular momentum and torque						
21	Course Content:								
	Course Content:								

Week	Theoretical		Practice						
1	Length, Mass and time standards, Dimensional analysis, Conversion of t	units							
2	Vectors, Coordinate systems, Vector scalar quantities, some of the propert Vectors, Vector components and unit	and ies of vectors							
3	The laws of motion, Concept of Force Newton's first law and inertial systems Newton's second law, The force of gra and weight, Newton's third law, Newton laws in some applications, The friction	s, avity on's n force							
4	Motion, Position, Velocity, Instantaneo velocity, Acceleration, Motion diagram Motion with constant acceleration in o dimension, free falling bodies, The kir equations derived from the mathemat equation	ous ns, one nematic ical							
5	Two-dimensional motion of position, and acceleration vectors, Motion in tw dimensions with constant acceleratior Angular shot, Uniform circular motion Tangential and radial acceleration, Re velocity and relative acceleration	/elocity /o n, a, elative							
6	Other applications of circular motion a Newton's laws, Newton's second law, implementation of uniform circular motion Non-uniform circular motion of accele systems	and The otion, rated							
Activit	res		Number	Duration (hour)	Total Work Load (hour)				
Theore	force, Kinetic energy and work-kinetic	energy	14	3.00	42.00				
Practica	als/Labs		0	0.00	0.00				
Self stu	dystechp Constantive and non conser	rvative	13	3.00	39.00				
Homew	vorks		12	3.00	36.00				
Project	monconservative forces, The correlation	on	0	0.00	0.00				
Field S	tudies		0	0.00	0.00				
Midtern	Impulse and momentum, Linear mom	entum	1	2.00	2.00				
Others			0	0.00	0.00				
Final E	Collisions in two dimensions. The mo	vement	1	2.00	2.00				
Total W	Vork Load				121.00				
Total w	movement of Rocket				4.03				
ECTS (Credit of the Course				4.00				
	Perpendicular Axes Theorem								
13	Angular Momentum and Angular Mon Conservation, Torque, Determination Relationship Between Torque and An Acceleration	nentum of the gular							
14	General Review and Problem Solution	ns							
22	Textbooks, References and/or Other Materials:		 "Fundamentals of Physics", David Halliday, Robert Resnick, (2008), Wiley. "University Physics", Hugh D. Young, Roger A. Freedman, (2007) Pearson Education. "Physics for Scientists and Engineers", Raymond A. Serway, John W., (1995) Palme 						
23	Assesment								
TERML	EARNING ACTIVITIES	NUMBE R	WEIGHT						

Midterm Exam	1	40.00					
Quiz	0	0.00					
Home work-project	0	0.00					
Final Exam	1	60.00					
Total	2	100.00					
Contribution of Term (Year) Learning Activitie Success Grade	es to	40.00					
Contribution of Final Exam to Success Grade	3	60.00					
Total		100.00					
Measurement and Evaluation Techniques Us Course	sed in the	Measurement and evaluation are performed according to the Rules & Regulations of Bursa Uludağ University on Undergraduate Education.					

24 ECTS / WORK LOAD TABLE

25	CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS															
	PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ1 0	PQ11	PQ12	PQ1 3	PQ14	PQ15	PQ16
ÖK1	3	2	2	3	2	2	4	2	3	3	2	2	0	0	0	0
ÖK2	3	3	2	3	2	3	3	3	2	3	4	2	0	0	0	0
ÖK3	5	5	4	3	2	5	3	4	3	3	3	2	0	0	0	0
ÖK4	5	5	5	3	2	5	3	5	3	4	4	2	0	0	0	0
ÖK5	5	5	5	3	2	5	3	4	3	4	5	2	0	0	0	0
ÖK6	5	5	5	4	2	4	5	3	2	3	5	3	0	0	0	0
ÖK7	5	5	5	3	2	3	3	3	2	3	3	3	0	0	0	0
ÖK8	4	4	4	3	2	2	3	3	2	3	4	4	0	0	0	0
ÖK9	4	4	4	3	2	3	3	2	2	4	3	4	0	0	0	0
ÖK10	4	4	4	3	2	4	3	4	3	3	5	3	0	0	0	0
LO: Learning Objectives PQ: Program Qualifications																
Contrib ution Level:	Contrib 1 very low ution Level:		2 low			3	3 Medium		4 High			5 Very High				