PHYSICS									
1	Course Title:	PHYSIC	S						
2	Course Code:	FZK1085							
3	Type of Course:	Compuls	sory						
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:	Doç. Dr. FATMA KOÇAK							
15	Course Lecturers:	Fizik Bölümü Öğretim Üyeleri							
16	Contact information of the Course Coordinator:	Doç. Dr. Fatma KOÇAK e-mail:fkocak@uludag.edu.tr Tel: 0 224 29 41 710 Adres: Bursa 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:	It develops the skill that will help the student to define the problem he / she encounters, develop solutions to the problem and reach the result by providing analytical thinking skills.							
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	Learn Newton's laws of motion (1 and 3), and the concept of torque						
		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 u the potential energy and energy conservation									
8 Learn the subject of linear momentum and collisions									
		9	Learn the concepts of Rigid-body rotation around a fixed axis, rotational motion						
		10	Angular momentum and torque						
21	Course Content:								
	Course Content:								

Week	Theoretical		Р	ractice			
1	Length, Mass and time standards, Dimensional analysis, Conversion of u	ınits					
2	Vectors, Coordinate systems, Vector a scalar quantities, some of the propertion vectors, Vector components and unit	es of					
3	The laws of motion, Concept of Force, Newton's first law and inertial systems Newton's second law, The force of graand weight, Newton's third law, Newto laws in some applications, The friction	i, nvity n's					
4	Motion, Position, Velocity, Instantaneo velocity, Acceleration, Motion diagram Motion with constant acceleration in ordimension, free falling bodies, The kin equations derived from the mathemati equation	s, ne ematic					
5	Two-dimensional motion of position, V and acceleration vectors, Motion in two dimensions with constant acceleration Angular shot, Uniform circular motion Tangential and radial acceleration, Revelocity and relative acceleration	o , ,					
6	Other applications of circular motion a Newton's laws, Newton's second law, implementation of uniform circular mo Non-uniform circular motion of acceler systems	The tion,					
Activit	es			Number	Duration (hour)	Total Work Load (hour)	
Theore	force, Kinetic energy and work-kinetic	energy		14	3.00	42.00	
Practic	als/Labs			0	0.00	0.00	
Self stu	systemp@mesationtive and non conser	vative	Γ	13	2.00	26.00	
Homew	vorks			13	3.00	39.00	
Project	nonconservative forces, The correlation	n	Γ	0	0.00	0.00	
Field S	tudies		•	0	0.00	0.00	
Midterr	Impulse and momentum, Linear mome	entum		1	2.00	2.00	
Others	,			13	1.00	13.00	
Fingl E	rams I Collisions in two dimensions. The mov	omont		1	2.00	2.00	
	ork Load					124.00	
Total w	mpyement of Rocket					4 13	
ECTS	Credit of the Course					4.00	
	Perpendicular Axes Theorem						
13	Angular Momentum and Angular Mom Conservation, Torque, Determination of Relationship Between Torque and Ang Acceleration	of the gular					
14	General Review and Problem Solution	ıs					
22	Textbooks, References and/or Other Materials:		1. "Fundamentals of Physics", David Halliday, Robert Resnick, (2008), Wiley. 2. "University Physics", Hugh D. Young, Roger A. Freedman, (2007) Pearson Education. 3. "Physics for Scientists and Engineers", Raymond A. Serway, John W., (1995) Palme				
23	Assesment						
		NUMBE	W	/EIGHT			
		₹					

Midterm Exam 1		40.00				
Quiz 0 0		0.00				
Home work-project	0	0.00				
Final Exam	1	60.00				
Total	2	100.00				
Contribution of Term (Year) Learning Activit Success Grade	es to	40.00				
Contribution of Final Exam to Success Grad	е	60.00				
Total		100.00				
Measurement and Evaluation Techniques U Course	sed in the	The system of relative evaluation is applied.				
24 ECTS / WORK LOAD TABLE	1	•				

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	5	3	2	5	3	5	3	4	4	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: L	_earr	ning (Objec	ctive	s P	Q: P	rogra	ım Qu	alifica	tions	<u>. </u>		
Contrib 1 very low 2 low ution				3 Medium			4 High			5 Very High						

Contril	1 very low	2 low	3 Medium	4 High	5 Very High
ution					
Level:					