PHYSICS									
1	Course Title:	S							
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	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:	Üyesi Ha	Doç. Dr. Sezer ERDEM, Doç Dr. Ayşegül KAHRAMAN, Dr. Öğr. Üyesi Handan ENGİN KIRIMLI, Dr. Öğr. Üyesi Fatma KOÇAK, Dr. Öğr. Üyesi Adnan KILIÇ						
16	Contact information of the Course Coordinator:	uakar@uludag.edu.tr, 0 224 29 41 707, Doç. Dr. Ürkiye AKAR TARIM, 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:	Understanding the basic topics of Physics course, associating with current issues and explaining.							
20	Learning Outcomes:	tcomes:							
		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						
	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 usin 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		Р	ractice			
1	Length, Mass and time standards, Dimensional analysis, Conversion of t	units					
2	Vectors, Coordinate systems, Vector scalar quantities, some of the propertivectors, Vector components and unit	ies of					
3	The laws of motion, Concept of Force Newton's first law and inertial systems Newton's second law, The force of grand weight, Newton's third law, Newtolaws in some applications, The friction	s, avity on's					
4	Motion, Position, Velocity, Instantaned velocity, Acceleration, Motion diagram Motion with constant acceleration in a dimension, free falling bodies, The kir equations derived from the mathemat equation	ns, one nematic					
5	Two-dimensional motion of position, \ and acceleration vectors, Motion in tw dimensions with constant acceleration Angular shot, Uniform circular motion Tangential and radial acceleration, Revelocity and relative acceleration	/O n, n,					
6	Other applications of circular motion a Newton's laws, Newton's second law, implementation of uniform circular motion of accele Non-uniform circular motion of accele systems	The otion,					
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	dystethp@meseticative and non conse	rvative	Г	13	2.00	26.00	
Homew	vorks			13	3.00	39.00	
Project	monconservative forces, The correlation	on	Γ	0	0.00	0.00	
Field S	tudies	,		0	0.00	0.00	
Midtern	Impulse and momentum, Linear mom	entum	Г	1	2.00	2.00	
Others	, <u>=</u> ca		<u> </u>	13	1.00	13.00	
Final E	tams Collisions in two dimensions. The mo	UII	F	1	2.00	2.00	
	ork Load	Vemem				124.00	
Total w	movement to cket					4 13	
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	of the					
14	General Review and Problem Solution	ns					
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						
TERM L		NUMBE	W	/EIGHT			
		R					

Midterm Exam	1	40.00				
Wildlettii LXatti	'	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 Activ	vities to	40.00				
Contribution of Final Exam to Success Gra	ade	60.00				
Total		100.00				
Measurement and Evaluation Techniques Used in the Course		Test, classic or mixed exam				
24 ECTS / WORK LOAD TABL	E					

24 E0	CTS /	/ WO	RK L	OAD	TAB	LE										
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	0	3	3	3	2	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 1 very low 2 low ution			3 Medium			4 High			5 Very High							

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