		PHY	'SICS						
1	Course Title:	PHYSICS							
2	Course Code:	FZK1076							
3	Type of Course:	Compulsory							
4	Level of Course:	First Cycle							
5	Year of Study:	1							
6	Semester:	2							
7	ECTS Credits Allocated:	5.00							
8	Theoretical (hour/week):	2.00							
9	Practice (hour/week):	0.00							
10	Laboratory (hour/week):	0	0						
11	Prerequisites:	none							
12	Language:	Turkish							
13	Mode of Delivery:	Face to face							
14	Course Coordinator:	Doç. Dr. CENGİZ AKAY							
15	Course Lecturers:		Üyesi Cengiz AKAY						
16	Contact information of the Course Coordinator:	cenay@uludag.edu.tr Bursa Uludağ Üniversitesi, Fizik Bölümü							
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:	Realizes	Realizes the effect of physics on biological processes.						
20	Learning Outcomes:								
		1	Systems of measurement and unit learns						
		2	Information on the vector and scalar quantities can be obtained						
			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						
			Movement in one dimension, time, speed and acceleration, and they learn the concepts of use in problem solving						
			Movement in two dimensional, time, speed and acceleration, and they learn the concepts of use in problem solving						
			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:								
		Co	ourse Content:						
Week	Theoretical		Practice						

1	Length, Mass and time standards, Dimensional analysis, Conversion of	units			
2	Vectors, Coordinate systems, Vector scalar quantities, some of the propert Vectors, Vector components and unit	ties of			
3	The laws of motion, Concept of Force Newton's first law and inertial system Newton's second law, The force of gr and weight, Newton's third law, Newt laws in some applications, The frictio	s, avity on's			
4	Motion, Position, Velocity, Instantane velocity, Acceleration, Motion diagrar Motion with constant acceleration in o dimension, free falling bodies, The ki equations derived from the mathema equation	ns, one nematic			
5	Two-dimensional motion of position, and acceleration vectors, Motion in tw dimensions with constant acceleratio Angular shot, Uniform circular motion Tangential and radial acceleration, R velocity and relative acceleration	vo n, n,			
	Other applications of circular motion a Newton's laws, Newton's second law implementation of uniform circular mo Non-uniform circular motion of accele systems	, The otion,			
7 Activit	General Review		Number	Duration (hour)	Total Work
/ totivit					Load (hour)
Theore	ical		14	2.00	28.00
	Potential energy. Potential energy of als/Labs	a	0	0.00	0.00
Self stu	forces of conservation of mechanical dy and preperation Mechanical energy change for non-	energy,	14	4.00	56.00
Homew			0	0.00	0.00
Project	rconservative forces and potential ene Tenergy diagram	ergy, rne		0.00	0.00
Field St			0	0.00	0.00
	applisions, Conservation of linear			30.00	30.00
	momentum Collisions in one dimons	ion			
Others	,,		0	0.00	0.00
	omenter of mass system of particles	, The	1	40.00	40.00
					154.00
	Vork Load	,			154.00
Total w	Monient of inertia, Parallel Axes The	, orem,			5.13
Total w ECTS (	Woment of the Course				
Total w ECTS (	Monient of inertia, Parallel Axes The	mentum of the			5.13
Total w ECTS (	Moment of the Course Angular Momentum and Angular Mor Conservation, Torque, Determination Relationship Between Torque and Ar	mentum of the ngular			5.13
Total w ECTS ( 13 14 22	Rigio booy rotation about a fixed axis Woment of inertia, Parallel Axes Theo Credit of the Course Angular Momentum and Angular Mor Conservation, Torque, Determination Relationship Between Torque and Ar Acceleration	mentum of the ngular	1. "Fundamentals of P Resnick, (2008), Wiley 2. "University Physics' Freedman, (2007) Pea 3. "Physics for Scienti Serway, John W., (199	/. ', Hugh D. Young, Ro arson Education. sts and Engineers", F	5.13 5.00 ay, Robert
Total w ECTS ( 13 14 22	Moment of the Course Angular Momentum and Angular Mor Conservation, Torque, Determination Relationship Between Torque and Ar Acceleration General Review and Problem Solutio	mentum of the ngular	Resnick, (2008), Wiley 2. "University Physics" Freedman, (2007) Pea 3. "Physics for Scienti	/. ', Hugh D. Young, Ro arson Education. sts and Engineers", F	5.13 5.00 ay, Robert
Total w ECTS ( 13 14 22 23	Moment of the Course Angular Momentum and Angular Mor Conservation, Torque, Determination Relationship Between Torque and Ar Acceleration General Review and Problem Solutio Textbooks, References and/or Other Materials:	mentum of the ngular	Resnick, (2008), Wiley 2. "University Physics" Freedman, (2007) Pea 3. "Physics for Scienti	/. ', Hugh D. Young, Ro arson Education. sts and Engineers", F	5.13 5.00 ay, Robert

Quiz						0	I	0.0	0.00								
Home work-project								0.0	0.00								
Final Exam								60.	60.00								
Total								10	100.00								
Contribution of Term (Year) Learning Activities to Success Grade								40.	40.00								
Contribution of Final Exam to Success Grade							60.	60.00									
Total								100.00									
Measurem Course							d in th	ne Sh	ort que	estions	s asked	in the le	esson.				
					TAB												
25	5 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	0	2	2	4	2	3	3	2	2	0	0	0	0	
ÖK2	3	3	2	0	2	3	3	3	2	3	0	2	0	0	0	0	
ÖK3	5	5	4	3	2	5	3	0	3	3	0	2	0	0	0	0	
ÖK4	5	5	5	3	2	5	3	0	3	4	0	2	0	0	0	0	
ÖK5	5	5	5	3	2	4	3	0	3	4	0	2	0	0	0	0	
ÖK6	5	5	5	4	2	4	0	2	2	0	0	3	0	0	0	0	
ÖK7	5	5	5	2	3	3	3	0	2	3	0	3	0	0	0	0	
ÖK8	4	4	4	3	2	2	3	0	2	3	0	0	0	0	0	0	
ÖK9	4	4	4	3	2	3	3	2	2	4	0	0	0	0	0	0	
ÖK10	4	4	4	3	2	4	3	0	0	3	0	0	0	0	0	0	
			LO: L	earr	ning C	bjec	tive	s P	Q: P	rogra	im Qu	alifica	tions	5			
Contrib 1 very low 2 low ution Level:				3 Medium			4 High			5 Very High							