		PH	YSICS								
1	Course Title:	PHYSIC	S								
2	Course Code:	FZK108	FZK1085								
3	Type of Course:	Compuls	sory								
4	Level of Course:	First Cyc	cle								
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	0.00								
10	Laboratory (hour/week):	0									
11	Prerequisites:	None									
12	Language:	Turkish									
13	Mode of Delivery:	Face to									
14	Course Coordinator:	-	HANDAN ENGİN KIRIMLI								
15	Course Lecturers:		ik Bölümü Öğretim Elemanları								
16	Contact information of the Course Coordinator:	ENĞİN H Fizik Böl	∂uludag.edu.tr, 0 224 29 41 709, Dr. Öğr. Üyesi Handan KIRIMLI, Bursa Uludağ Üniversitesi Fen Edebiyat Fakültesi, lümü 16059 Görükle ü 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:	By giving the student analytical thinking skills, she develops the skills that will help her define the problem she encounters, develop solutions for the problem and reach the result									
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 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 fixe axis, rotational motion									
		10	Angular momentum and torque								
21	Course Content:										
		Co	ourse Content:								
Neek	Theoretical		Practice								

1	Length, Mass and time standards, Dimensional analysis, Conversion of	units			
2	Vectors, Coordinate systems, Vector scalar quantities, some of the proper 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 g and weight, Newton's third law, Newt laws in some applications, The friction	ns, ravity ton's			
	Motion, Position, Velocity, Instantane velocity, Acceleration, Motion diagrar Motion with constant acceleration in dimension, free falling bodies, The ki equations derived from the mathema equation	ms, one nematic			
5	Two-dimensional motion of position, and acceleration vectors, Motion in tu dimensions with constant acceleration Angular shot, Uniform circular motion Tangential and radial acceleration, R velocity and relative acceleration	wo n, n,			
	Other applications of circular motion Newton's laws, Newton's second law implementation of uniform circular m Non-uniform circular motion of accele systems	r, The notion, erated			
7 Activit	Repeating courses and midterm examples	<u>m</u>	Number	Duration (hour)	Total Work Load (hour)
Theore	tical		14	3.00	42.00
	Potential energy. Potential energy of als/Labs	<u>a</u>	0	0.00	0.00
	Inces of conservation of mechanical dy and preperation Mechanical energy change for	energy,	13	3.00	39.00
Homew	Mechanical energy change for		13	3.00	39.00
Droiget	petween conservative forces and pot energy. The energy diagram	ential	0		
				0.00	0.00
Field St	applisions, Conservation of linear		0	0.00	0.00
	momentum Collisions in one dimension	sion	1	4.00	4.00
Others	· · · · · · · · · · · · · · · · · · ·		0	0.00	0.00
	comounter of mass system of particles	, The	1	4.00	4.00
	/ork Load				120.00
Totāl w	brk load 30 br				
	Nigio booy rotation about a fixed axis Moment of inertia, Parallel Axes The	orem,			4.00
	Credit of the Course				4.00 4.00
		mentum n of the			
	Credit of the Course Angular Momentum and Angular Mon Conservation, Torque, Determination Relationship Between Torque and Ar	mentum n of the ngular			
13 14 22	Credit of the Course Angular Momentum and Angular Mon Conservation, Torque, Determination Relationship Between Torque and Ar Acceleration	mentum n of the ngular ons	1. "Fundamentals of Ph Resnick, (2008), Wiley. 2. "University Physics", Freedman, (2007) Pear 3. "Physics for Scientist Serway, John W., (1995	Hugh D. Young, Ro son Education. s and Engineers", R	4.00 ay, Robert oger A.
13 14 22	Credit of the Course Angular Momentum and Angular Mon Conservation, Torque, Determination Relationship Between Torque and Ar Acceleration General Review and Problem Solution Textbooks, References and/or Other	mentum n of the ngular ons	Resnick, (2008), Wiley. 2. "University Physics", Freedman, (2007) Pear 3. "Physics for Scientist	Hugh D. Young, Ro son Education. s and Engineers", R	4.00 ay, Robert oger A.
13 14 22 23	Credit of the Course Angular Momentum and Angular Mon Conservation, Torque, Determination Relationship Between Torque and Ar Acceleration General Review and Problem Solution Textbooks, References and/or Other Materials:	mentum n of the ngular ons	Resnick, (2008), Wiley. 2. "University Physics", Freedman, (2007) Pear 3. "Physics for Scientist	Hugh D. Young, Ro son Education. s and Engineers", R	4.00 ay, Robert oger A.

Quiz	0.0	0.00										
Home work-project	0.0	0.00										
Final Exam	60.	60.00										
Total	100	0.00										
Contribution of Term (Year) Learning Activitie Success Grade	40.0	40.00										
Contribution of Final Exam to Success Grade	60.	60.00										
Total	100	100.00										
Measurement and Evaluation Techniques Us Course	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 PQ	6 PQ7	PQ8		PQ1 0	PQ11	PQ12	PQ1 3	PQ14	PQ15	PQ16		

			FQJ	1 94	1 64.5				FQ9	0	1 5411	FUIZ	3		FQIJ	FQIO
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	3	4	4	3	4	5	2	0	0	0	0
ÖK6	5	5	5	4	2	4	5	3	3	2	3	5	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 C	bjec	tive	s P	Q: P	rogra	m Qu	alifica	tions	i		ļ
Contrib ution Level:	ution				3 Medium			4 High			5 Very High					