HISTORY OF PHYSICS											
1	Course Title:	HISTORY OF PHYSICS									
2	Course Code:	FZK2410	0								
3	Type of Course:	Optional									
4	Level of Course:	First Cyc	cle								
5	Year of Study:	2									
6	Semester:	4									
7	ECTS Credits Allocated:	6.00									
8	Theoretical (hour/week):	3.00									
9	Practice (hour/week):	2.00	2.00								
10	Laboratory (hour/week):	0									
11	Prerequisites:	There is	no course prerequisite								
12	Language:	Turkish									
13	Mode of Delivery:	Face to	face								
14	Course Coordinator:	Prof. Dr.	EMIN N. ÖZMUTLU								
15	Course Lecturers:	Yrd. Doç. Dr. Sezer ERDEM									
16	Contact information of the Course Coordinator:	Prof. Dr. Emin N. ÖZMUTLU E-mail: ozmutlu@uludag.edu.tr İş Tel:(0224)2941693 Adres: UÜ Fen Edebiyat Fakültesi, Fizik Bölümü, 16059 Görükle Kampusü, Bursa									
17	Website:										
18	Objective of the Course:	The aim of this course to teach the philosophical concepts of physics and the interrelations between different physical subjects throughout the historical stream of physics.									
19	Contribution of the Course to Professional Development:										
20	Learning Outcomes:										
		1	Learns the conceptual development of physics.								
		2	Understands the interrelations among different physics' subjects.								
		3	Learns the cronological development of physics' subjects.								
		4	Can follow discussions of physics' philosophy.								
		5	Understand the physical interpretation of natural phenomona.								
		6	Gains the ability of scientific thinking.								
		7	Gains the ability of scientific interpretation of every day events.								
	8										
		9									
		10									
21	Course Content:										
	Course Content:										

Week	Theoretical								Pr	Practice										
1	Introduction								Fre	Free Discussions.										
2	Physics and astronomy before Galileo.								Fre	Free Discussions.										
3	Sun centred planets system.									Free Discussions.										
4	Galileo's physics.									ee Dis	cussior	าร.								
5	Newton's synthesis.									Free Discussions.										
6	Over	all p	hysics	s laws					Fre	Free Discussions.										
7	Optic	s.							Fre	Free Discussions.										
8	Elect	ricity	/ and	magn	etism.				Fre	Free Discussions.										
9	Midte	erm (	exam	+repea	ating o	courses	3		Re	Repeating courses and midterm exam										
10	Spec theor	cial re Ƴy	elativi	ty theo	ory,Ge	eneral ı	relativ	ity	Fre	Free Discussions.										
11	Ther	mod	ynam	ics.					Fre	e Dis	cussior	าร.								
12	Experimental physics at the end of 19. century.									ee Diso	cussior	าร.								
13	Quar	ntum	mecl	nanics	and p	particle	physi	ics.	Fre	ee Dis	cussior	าร.								
14	Histo	ory of	f cosn	nology	<i>'</i> .				Fre	ee Dis	cussior	าร.								
22	Textbooks, References and/or Other Materials:									1.E.N. Özmutlu (2012), "Unpublished Lectures Notes". 2.L. Motz, J.H. Weaver (1985), "The Story of Physics", Plenum Pres. New York										
Activites									Numb	ber		Dura	Duration (hour)			Total Work Load (hour)				
Thereire	tiæka	m					1		40	1 <del>0</del> 0			3.00			42.00				
Practicals/Labs										14			2.00			28.00				
Applingtworkendergeperation 0									0.0	0.00				5.00			70.00			
Homew	Homeworks									0				0.00			0.00			
Fort	S						2		10	100.00				0.00			0.00			
Field Studies									(	0				0.00			0.00			
ହାଇନ୍ତ୍ର କ୍ଷକ୍ତରାମନ										1			6.00			6.00				
Others	Others									14				2.00			28.00			
Final E	xams								10	100.00				6.00			6.00			
Total Work Load														180.00						
ଦିହାଣାର୍କ୍ଷork load/ 30 hr									6.00											
ECTS	ECTS Credit of the Course									6.00										
25		CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS																		
	F	PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ1 0	PQ11	PQ12	PQ1 3	PQ14	PQ15	PQ16			
ÖK1	5	5	5	5	0	0	5	4	0	5	5	0	0	0	0	0	0			
ÖK2	3	}	3	2	0	0	3	2	0	3	2	0	0	0	0	0	0			
ÖK3	5	5	5	4	0	0	5	3	0	3	4	0	0	0	0	0	0			
ÖK4	5	5	5	5	0	0	5	3	0	3	4	0	0	0	0	0	0			

ÖK5	5	5	5	0	0	5	3	0	3	4	0	0	0	0	0	0
ÖK6	5	5	5	0	0	5	3	0	3	4	0	0	0	0	0	0
ÖK7	5	5	5	0	0	5	2	0	2	2	0	0	0	0	0	0
LO: Learning Objectives PQ: Program Qualifications																
Contrib ution Level:	ontrib 1 very low tion evel:			2 low		3 Medium		4 High		5 Very High						