	HISTORY O	F NAT	URAL PHILOSOPHY							
1	Course Title:	HISTOR	Y OF NATURAL PHILOSOPHY							
2	Course Code:	FZK0508	3							
3	Type of Course:	Optional								
4	Level of Course:	First Cyc	le							
5	Year of Study:	3								
6	Semester:	5								
7	ECTS Credits Allocated:	5.00								
8	Theoretical (hour/week):	2.00								
9	Practice (hour/week):	0.00								
10	Laboratory (hour/week):	0								
11	Prerequisites:	There is	no course prerequisite							
12	Language:	Turkish								
13	Mode of Delivery:	Face to f	ace							
14	Course Coordinator:	Prof. Dr.	EMIN N. ÖZMUTLU							
15	Course Lecturers:	Yrd. Doç	. Dr. Ercan PİLİÇER							
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:	According to Sir Isaac Newton physics is "Philosophiae Naturalis Principia Mathematica". The aim of this course is to teach the philosophical concepts of physiscs ton non-physicians in natural philosophy sense.								
19	Contribution of the Course to Professional Development:									
20	Learning Outcomes:									
		1	Learns the role of mathematics in interpretation of nature.							
		2	Learns that the astronomy is the orijin of the modern science.							
		3	Gains the ability of scientific thinking.							
		4	Learns how vast the volume of knowledge in nature.							
		5 Understand the scientific interpretation of natural phenomona.								
		6	Gains the ability of positive way of reasoning.							
		7	Gains the ability of scientific interpretation of every day events.							
		8								
		9								
		10								
21	Course Content:									
		Course Content:								
Week	Theoretical		Practice							
1	Introduction, Astronomy and physics Galileo.	before								

2	Sun	Sun centred planets system.																		
3	Galil	eo's	physi	CS.																
4	New	Newton's synthesis.																		
5	Optics,Electromagnetism.																			
6	Special relativity theory.																			
7	Gene	eral ı	elativ	ity the	ory.															
8	Thermodynamics.																			
9	Midterm exam+repeating courses																			
10	Quantum mechanics.																			
11	Elem	nanta	ary pa	rticles	physi	CS.														
12	The	philo	sophy	of cla	assica	ıl physi	CS													
13	Mode	ern p	hysic	s felsf	esi															
14	Gene	eral ı	ewie	/ and (	discus	sions.														
22	Textbooks, References and/or Other								1.1	1.E.N. Özmutlu (2012),"Unpublished Lectures Notes".										
	Mate	erials	:						2.1	. Motz	. J.H. \	Weaver	(1985)	. "The	Story o	f Physics	5".			
									Ple	Plenum Pres, New York.										
22	Assc	smo	nt																	
ZJ	FAR	NING		VITIES			N	UMBE	= lwi	FIGHT										
Activit	tes		<u> </u>							Numb	er		Dura	tion (	Total Work					
														Load (he						
Horner	WGAK-1	proje	ect				0		0.0	<del>10</del>			2.00	2.00			28.00			
Practic	Practicals/Labs									0						0.00				
<del>\$6</del> tastu	udy ar	nd pr	epera	ition			2		10	10400		2.00			28.00					
Homew	vorks						_		(	0				0.00			0.00			
PHGEE	SHORE Grade									0		0.00			0.00					
Field S	ield Studies										0					0.00				
<b>1⊅bi¢ta</b> ∉rr	hidserm exams										100.00			3.00			3.00			
Others	thers										14			6.00			84.00			
€inmiæ	Me sams										1				3.00					
Total V	al Work Load															146.00				
Total w	otal work load/ 30 hr																4.87			
ECTS	CTS Credit of the Course															5.00				
25				CON	TRIE	BUTIO	N OI	E LE					S TO I	PROG	GRAM	ME				
	F	PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ1 0	PQ11	PQ12	PQ1 3	PQ14	PQ15	PQ16			
ÖK1	5	5	5	4	0	0	5	5	0	5	5	5	0	0	0	0	0			
ÖK2	3	3	3	2	0	0	3	2	0	3	3	0	0	0	0	0	0			
ÖK3	5	5	5	5	0	0	4	3	0	3	3	0	0	0	0	0	0			
ÖK4	F	5	5	5	0	0	4	3	0	3	3	0	0	0	0	0	0			
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ÖK5	5	5	5	0	0	5	3	0	3	3	0	0	0	0	0	0
ÖK6	5	5	5	0	0	4	2	0	2	2	0	0	0	0	0	0
ÖK7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LO: Learning Objectives PQ: Program Qualifications																
Contrib ution Level:	rib 1 very low n el:		2 low		3 Medium		4 High		5 Very High							