Course Information									
Course Code	Т	P	L	C	ECTS	<b>Type</b> C/E	Language TR/ENG etc.	Year/Semester	
FİZ2004	3	0	0	3	5	E	TR	2/SPRING	
Course Name (Turkish)	Course Name (Turkish) Fizik Bilimi Tarih								
Course Name (English)	History o	History of Physics Science							

Unit/Progr am	Physics Department/U	Indergraduate Program						
Course Prerequisit e	No							
Course Objectives								
Course Outline								
Textbook/ Material / Resources	Material / 2. Seviii Teken, Esin Kaya, Kenizi Dennir, H. Gazzi Tepudenir, Yavuz Unat.							
Internship Status	ternship <sub>No</sub>							
		<b>Course Precedents</b>						
Universit y Name	<b>Program Name</b>	Course Name	T-P-L-C; ECTS	Туре				
Eskisehir Osmangazi University	Physics	History of Science in Physics I	2-0-0-2-2	E				
Harran University	Physics	History of Science in Physics	3-0-0-3; 4	E				
The instruct	or who proposed the c	Signature						
Instructors who can teach the course (Title, Name and Surname)  Signature								

Academic justification for the opening of the course? (The effect of course outcomes on program outcomes, etc.)

**Brief explanation of the course** (theoretical lecture, applications, laboratory, studio, off-campus activity, using software, atc.)

Face-to-face courses will be taught under the supervision of the relevant faculty member.

**External Stakeholder Opinions About** the Course (It is expected that the opinions to be obtained from the business world that will employ your graduates or from real or legal persons outside the University who have expertise on the subject of the course will be specified. Proof documents must be attached to this form.)

the course will be specified. Proof documents must be attached to this form.)								
Stakeholder Name	<b>Opinion</b> (It should be given as a summary, it should not exceed two lines.)							

	Weekly Course Content Distribution						
Week	Theory	Application/Laboratory					
1	Introduction to Science in Ancient Civilizations						
2	Introduction to Science in Medieval Europe and the Islamic World						
3	Introduction to the Renaissance and Modern Science						
4	Natural sciences in the 18th century						
5	Euler, Lagrange, Laplace, d'Alembert, C. A. Coulomb, J. L. Lagrange, J. Watt, L. Galvani						
6	Industrial revolution and science; Natural sciences in the 19th century						
7	Philosophy of science in the 20th century						
8	Popetian philosophy, Kuhn's paradigm approach,						
9	Midterm Exam						
10	Developmental processes of classical mechanics, the theory of relativity and quantum theory						
11	Philosophy of quantum mechanics						
12	Comments on quantum mechanics						
13	Paradoxes in quantum mechanics: Schrödinger's cat						
14	Einstein Rosen Podolsky (EPR) paradoksu, Bell teoremi						
15	Final Exam						
16							

	Assessment		
	Activity	Custom	Contribution to Success Grade (%)
	Midterm Exams	1	40
	Quizzes	Custom Contribution to Success Grade (%)	
	Assignments		
Evaluation Criteria	Projects		
	Term Paper		
	Laboratory		
	Other	1 60	
	Final Exam	1	60
		Sum:	100
Remarks			

	Mathematics and Basic Sciences	90					
	Engineering Sciences						
Content Design and	Social Sciences						
Subject Weight (%)	Health Sciences						
(78)	Educational Sciences						
	Culture and Art Sciences	10					
	Design Information						

Workload (ECTS) Calculation													
<b>Events</b> Number				<b>Duration (Hours)</b>				Total workload (Hours)					
Fieldwork													
Midterm Exam Application 1		2				2							
Self-Study (including pre-class and exam preparation)	Self-Study (including pre-class and exam		2				28						
Make-up Exam	1	2				2							
Experiment and Observation						Î							
Class Participation (Theory) 14		3				42							
Homework		3				TL							
Final Exam Practice	1			2			2						
Laboratory	_												
Article Review													
Writing an Article													
Reading													
Case Study													
Performance													
Problem Solution													
Project Preparation													
Project Submission													
Quiz													
-													
Report Preparation													
Submitting Reports													
Role/Drama Work													
Seminar													
Oral Exam													
Team/Group Work	12	3				36							
Argument	14	1				14							
Application/Practice													
Other													
	Т	ОТА	OTAL WORKLOAD:				126						
		TS OF THE COURSE:											
(The number obtained as a result of Total	Workload	1/25 is calculated by			by	5							
rounding to t				e nu	mbe	r.)							
Program Outcomes (PO)		1	2	3	4	5	6	7	8	9	10	11	
Learning Outcomes (LO) (Course Outcomes)													
Philosophical approach to the historical development of physics and natural sciences		3	3	3	1	1	1	3	3	3	5	3	
	To get to know scientists better by considering the		3	3	1	1	1	3	3	3	5	3	
conditions of the period they live in,	iontificall-	3										2	
3 Loving science and being motivated to work sc	ленинсану	3	3	3	1	1	1	3	3	3	5	3	

**Organizer:** Prof. Dr. Ömer KAYGıli **Preparation Date:** 20.05.2024