Course Information										
Course Code	Т	P	L	C	ECTS	Type C/E	Language TR/ENG etc.	Year/Semester		
FİZ3017	3	0	0	3	5	E	TR	3/FALL		
Course Name (Turkish)	Fizikte T	Fizikte Temel Kavramlar								
Course Name (English)	Basic Co	ncept in P	hysiscs							

Unit/Program	Physics Department/Unde	rgraduate Program							
Course Prerequisite	No								
Course Objectives	To teach the basic concepts in physics by considering them in the relationship of cause and effect, to comprehend the relationship between physics and mathematics and philosophy.								
Course Outline	Space and Time as Two Basic Concepts of Physics, Cause-Effect Principle, Measurement-Observation-Experiment trio, Positive The Principle of Simplicity as the Basis of Sciences and Physics, Physics-Mathematics, Physics-Philosophy relationship								
Textbook/ Material / Resources	Serway Physics Book Basic Physics Dating Publishing								
Internship Status	No								
	Co	ourse Precedents							
University Name	Program Name Course Name T-P-L-C; AKTS Type								
Pamukkale University	Chemistry	Basic Concepts in Physics	2-0-0-3; 5	С					
Gazi University	Physics	Basic Concepts in Physics	2-0-0-2; 3	С					
The instructor wh	o proposed the course (Tit	Signature							
Instructors who c	an teach the course (Title, N	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, etc.)

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.)

Stakeholder Name	Opinion (It should be given as a summary, it should not exceed two lines.)

Weekly Course Content Distribution							
Week	Theory	Application/Laboratory					
1	The Position of Nature in All Natural Sciences and Physics						
2	Space and Time as Two Fundamental Concepts of Physics						
3	The Principle of Cause and Effect as the Other Important Basis of Physics						
4	The Trio of Measurement-Observation-Measurement-Experiment as the Most Basic Process of Physics						
5	As the main feature of the method of physics; Explaining the Changes in Nature with the Unchanging						
6	Conservation and Variance as Other Fundamental Concepts in Physics						
7	Positive Sciences and the Principle of Simplicity as the Basis of Physics						
8	Positive Sciences and the Principle of Simplicity as the Basis of Physics						
9	Midterm Exam						
10	The Relationship Between Physics and Mathematics						
11	The Relationship Between Physics and Mathematics						
12	The Relationship Between Physics and Philosophy						
13	The Change of Basic Concepts in Physics in the Last Century						
14	The Change of Basic Concepts in Physics in the Last Century						
15	Final Exam						
16							

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

Remarks		
	Mathematics and Basic Sciences	100
	Engineering Sciences	
Content Design and	Social Sciences	
Subject Weight (%)	Health Sciences	
(%)	Educational Sciences	
	Culture and Art Sciences	
	Design Information	

Workload (ECTS) Calculation													
Events Number				on (1	Iou	rs)	Total workload (Hours)						
Fieldwork													
Midterm Exam Application	1			2			2						
Self-Study (including pre-class and exam	4.4												
preparation)	14			2			28			3			
Make-up Exam	1			2				2					
Experiment and Observation													
Class Participation (Theory)	14			3			42						
Homework													
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	12			2		36							
Team/Group Work	12 14												
Ü				1					14	4			
Application/Practice													
Other													
	T	OTA	ьW	ORK	LOA	D:	126						
ECTS CREDITS OF THE COURSE:													
	(The number obtained as a result of Total Workload/2								5				
	ounding to												
						1							
Program Outco	mes (PO)	1	2	2	4	_		7	0	9	10	11	
				3	4	5	6	7	8	9	10	11	
Learning Outcomes (LO) (Course Outcomes) To be able to understand the basic concepts of physics and												3	
to relate to other branches of science		5	5	5	4	3	3	4	5	5	3	3	
Davidenment of the ability to observe measure and make			_	_	4	2	1	4	_	-	2	3	
experimental interpretations in physics	experimental interpretations in physics		5	5	4	3	3	4	5	5	3		
To be able to establish and interpret the r		5	5	5	4	3	3	4	5	5	3	3	
between past physics concepts and current concepts			,	3	r	J	,	r	3	J	3		

Organizer: Assoc. Prof. Dr. Serpil YALÇIN KUZU

Preparation Date: 20.05.2024