Course Information										
Course Code	Т	Р	L	С	ECTS	Type C/E	Language TR/ENG etc.	Year/Semester		
FİZ3052	0	0	3	2	3	С	TR	3/SPRING		
Course Name (Turkish)	Fizik Lal	Fizik Laboratuvarı-IV								
Course Name (English)	Physics I	Physics Laboratory-IV								

Unit/Program	Physics Department/Undergr	aduate Program							
Course Prerequisite	No								
Course Objectives	It is aimed to introduce the concepts of Theoretical Physics and to reinforce basic knowledge with experimental applications.								
Course Outline	Thermodynamics and Atomic and Molecular Course Experiments								
Textbook/ Material / Resources	Laboratory Test Sheet Booklet and auxiliary resources.								
Internship Status	No								
	Course Precedents								
University Name	Program Name	Course Name	T-P-L-C; AKTS Type						
The instructor who proposed the course (Title, Name and Surname)			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.)

ECTS update for FIZ352 course

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

It will be processed in a face-to-face laboratory environment under the supervision of the relevant faculty members

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 document	s 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	Basic Laboratory Principles							
2	Basic Quantities, Systems of Units, Physical Measurements and Errors							
3	Introduction of Laboratory Instruments							
4		Self-Heat						
5		Thermoelectric Converter						
6		Thermal Efficiency						
7		Thermal Radiation						
8		Determination of e/m						
9	Midterm Exam							
10		Photoelectric Phenomenon						
11		Millikan's Oil Drop Experiment						
12		The Franck-Hertz experiment						
13		Atomic Spectra						
14		Excuse Test						
15								
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							

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

Workload (ECTS) Calculation												
Events	Number	Dui	ratio	on (I	Iour	s)	Tota	l wo	rklo	ad (Ήοι	ırs)
Fieldwork												
Midterm Exam Application	1			1					1			
Self-Study (including pre-class and exam												
preparation)												
Make-up Exam	1			1			1					
Experiment and Observation	9			2					18	3		
Class Participation (Theory)												
Homework												
Final Exam Practice	1			1					1			
Laboratory	14			3					42	2		
Article Review												
Writing an Article												
Reading												
Case Study												
Performance												
Problem Solution												
Project Preparation												
Project Submission												
Quiz												
Report Preparation	9			1			9					
Submitting Reports												
Role/Drama Work												
Seminar												
Oral Exam												
Team/Group Work	9			1					9			
Argument												
Application/Practice												
Other												
TOTAL WORKLOAD:					D:	81						
EC	TS CREDIT	rs of	TH	E CC	URS	E:						
(The number obtained as a result of Total Workload,									3	}		
rc	ounding to	the u	vhol	e nu	mber	r.)						
Program Outco	omes (PO)					_						
Learning Outcomes (LO) (Course Outcomes)		1	2	3	4	5	6	7	8	9	10	11
Can carry out independent and collaborative studies on			,			-		_	-		_	4
¹ physics-related issues and use analytical think	physics-related issues and use analytical thinking skills		4	4	4	5	4	5	5	4	3	
Gain the knowledge and skills necessary to use		5	4	4	4	5	4	5	5	4	3	4
² experimental methods and data analysis techniques		5	1			5		5	5		5	

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Organizer: Assoc. Prof. Dr. Köksal YILDIZ Preparation Date: 20.05.2024

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work

principles

improves

Students have the ability to participate effectively in group

Students gain the ability to take responsibility and have

Students' ability to make written and oral presentations