

Course Information								
Course Code	T	P	L	C	ECTS	Type C/E	Language TR/ENG etc.	Year/Semester
FİZ2013	3	0	0	3	5	C	TR	2/FALL
Course Name (Turkish)	Fizik Bilimine Giriş							
Course Name (English)	Introduction to Physical Science							

Unit/Program	Physics Department/Undergraduate Program
Course Prerequisite	There are no prerequisites
Course Objectives	Students learn the development of physical science, some important basic concepts and terms related to the profession, unit systems that will be constantly required in education and professional life, and research processes; To enable them to have knowledge and opinions about the concepts of professional and scientific ethics, and to gain the skills of preparing research reports and presentations
Course Outline	Development of Physical Science, Some important concepts in physics, Scientific research process, concepts of professional and scientific ethics, presentation and report preparation techniques.
Textbook/ Material / Resources	Physics 1: For Science and Engineering, by Raymond A. Serway General Physics 1, Prof. Dr. İsmet ERTAŞ, Ege un. Publications
Internship Status	

Course Precedents				
University Name	Program Name	Course Name	T-P-L-C; ECTS	Type
Istanbul Technical University	Physics engineering	Introduction to Physics Engineering	2-0-2-0-2.5	C
Eskisehir Osmangazi University	Physics	Introduction to Physical Science	2-0-2-0-3	C
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.)
To have knowledge about professional opportunities and ethical issues, to gain experience in the management of scientific research processes and presentation skills

Brief explanation of the course (theoretical lecture, applications, laboratory, studio, off-campus activity, using software, etc.)
In the course, students will learn the development of physical science, some important basic concepts and terms related to the profession, unit systems that will be constantly required in education and professional life, research processes; To have knowledge and opinions about the concepts of professional and scientific ethics, research report and presentation preparation techniques will be taught.

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	Introduction of the Program	
2	The Birth of Science: Science from Past to Present	
3	Development of Physical Science	
4	Some important concepts in physics: measurement and fundamental quantities	
5	Some Important Concepts in Physics: Vectors and Vector Operations	
6	Physics and Mathematics	
7	Scientific Research Process and Basic Concepts	
8	Data Analysis and Interpretation	
9	Midterm Exam	
10	Resource Scanning in Physics	
11	Academic Presentation Techniques	
12	Report Preparation Technique	
13	Science Ethics, Career Planning and Development	
14	Vocational Education and Professional Ethics	
15	Final Exam	
16		

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

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

Workload (ECTS) Calculation			
Events	Number	Duration (Hours)	Total workload (Hours)
Fieldwork			
Midterm Exam Application	1	2	2
Self-Study (including pre-class and exam preparation)	11	4	44
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			
Team/Group Work	5	5	25
Argument	5	2	10
Application/Practice			
Other			
TOTAL WORKLOAD:			127
ECTS CREDITS OF THE COURSE: (The number obtained as a result of Total Workload/25 is calculated by rounding to the whole number.)			5

The Relationship Between Course Learning Outcomes and Program Outcomes												
		Program Outcomes (PO)										
		1	2	3	4	5	6	7	8	9	10	11
Learning Outcomes (LO) (Course Outcomes)												
1	Learns the basic terms of physical science.	3	3	3	1	1	1	3	3	3	5	5
2	Interpret some of the basic concepts of physics.	3	3	3	1	1	1	3	3	3	5	5
3	Understands the concepts of scientific and professional ethics.	3	3	3	1	1	1	3	3	3	5	5
4	Knows the rules in preparing research reports.	3	3	3	1	1	1	3	3	3	5	5
5	Recognizes the types of presentations (reports, papers, articles, posters). Understand the basic structure of the scientific research process.	3	3	3	1	1	1	3	3	3	5	5

Organizer: Prof. Dr. Mediha KÖK

Preparation Date: 20.05.2024