Course Information									
Course Code	Т	P	L	C	ECTS	Type C/E Languag		Year/Semester	
FİZ4002	4	0	0	4	5	C	TR	4/SPRING	
Course Name (Turkish)	Klasik(T	Klasik(Teorik) Mekanik							
Course Name (English)	Classic M	1echanic							

E									
Unit/Program	Physics Department/Undergraduate Program								
Course Prerequisite	No								
Course Objectives	To teach students to comprehend the concepts of theoretical mechanics and problem solutions about the subject. $\[$								
Course Outline	Newtonian mechanics, teaching the solution of Lagrangian and Hamiltonian equations of motion in accelerated and non-accelerated systems, giving examples from life								
Textbook/ Material / Resources	Theoretical mechanics textbooks and lecture notes								
Internship Status	No								
	Co	urse Precedents							
University Name	Program Name	Course Name	T-P-L-C; AKTS Type						
Ankara University	Physics	Mechanical Theory	4-2-0-5; 9	C					
The instructor wh	o proposed the course (Title	Signature							
Instructors who c	an teach the course (Title, Na	Signature							

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

ECTS update for FIZ402 course

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

It will be taught theoretically 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 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	Newton's Laws and Applications					
2	Two-body problem					
3	Point Objects					
4	Theory of gravity					
5	Motion in Accelerating Reference Systems					
6	Statics and Dynamics of Solid Strings					
7	Mechanical Analytics					
8	MIDTERM EXAM					
9	Lagrange Metodu					
10	Hamiltonian Method					
11	Canonical Conversions					
12	Hamiltonyen Jacobi Teoremi					
13	D'alembert's principle					
14	Again					
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							

	Mathematics and Basic Sciences	80
	Engineering Sciences	20
Content Design and	Social Sciences	
Subject Weight (%)	Health Sciences	
(78)	Educational Sciences	
	Culture and Art Sciences	
	Design Information	

Workload (ECTS) Calculation												
Events	Number	Du	ratio	on (Hours)			Total workload (Hours)					
Fieldwork												
Midterm Exam Application				2			2					
Self-Study (including pre-class and exam	14			3			42					
preparation)												
Make-up Exam	1			2			2					
Experiment and Observation	4.4									_		
Class Participation (Theory)	14			4					50	6		
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												
Argument	7			3			21					
Application/Practice												
Other												
	T	OTAL WORKLOAD:					125					
EC	TS CREDIT	IS OF THE COURSE:										
(The number obtained as a result of Total	Workload								5	5		
ro	unding to	the u	vhol	e nu	mbe	r.)						
				1	1							
Program Outco	Program Outcomes (PO)		2	,		5		7	0	0	10	11
Learning Outcomes (LO) (Course Outcomes)		1		3	4	5	6	7	8	9	10	11
Can carry out independent and collaborative studies on		5	4	4	4	5	4	5	5	4	3	1
physics-related issues and use analytical think	physics-related issues and use analytical thinking skills		4	4	4	3	4	3	3	4	3	
2 Gain the knowledge and skills necessary to use experimental methods and data analysis techniques		5	4	4	4	5	4	5	5	4	3	1
3 Students have the ability to participate effectively in group work		5	4	4	4	5	4	5	5	4	3	1
A Students gain the ability to take responsibility and have		5	4	4	4	5	4	5	5	4	3	1
Students' shility to make written and oral presentations		5	•		_		•			1		1
5 students ability to make written and oral pro improves	51		4	4	4	5	4	5	5	4	3	1

Organizer: Prof. Dr. Ali YEŞİL Preparation Date: 20.05.2024