Course Information										
Course Code	Т	Р	L	С	ECTS	ECTS Type C/E		Year/Semester		
FİZ1102	4	2	0	5	8	С	TR	1/ SPRING		
Course Name (Turkish)	Genel Fiz	zik -II								
Course Name (English)	General	Physics-II	[

Unit/Program	Physics Departmen	Physics Department/Undergraduate Program									
Course Prerequisite	No	Io									
Course Objectives	Teaching Students the	eaching Students the Concepts of Electricity and Magnetism Physics									
Course Outline	Physics of Electricity	Physics of Electricity and Magnetism									
Textbook/ Material / Physics for Science and Engineering II. (Serway Physics 2) Resources											
Internship Status No											
		Course Precedents									
University Name	Program Name	Course Name	T-P-L-C; ECTS	Туре							
Gebze Technical University	Physics	Physics II	3-0-0-4-6	С							
Osmangazi University	Physics	Physics II	4-2-0-5-7	С							
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 FIZ102 course

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

It will be taught by the relevant Faculty Member in a face-to-face classroom environment.

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	Electric Charge and Coulomb's Law										
2	Electric Field										
3	Electric Flux and Gauss's Law										
4	Electrical Potential, Energy and Electrical Potential										
5	Electrical potential generated by continuous charge distribution										
6	Capacitance and Dielectrics										
7	Current and Resistance										
8	Direct Current Circuits, RC Circuits										
9	Midterm Exam										
10	Magnetic Fields										
11	Magnetic Field Sources										
12	Faraday's Law										
13	Inductance										
14	Alternating Current and Electromagnetic Waves										
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	50
	Engineering Sciences	50
Content Design and	Social Sciences	
Subject Weight	Health Sciences	
(%)	Educational Sciences	
	Culture and Art Sciences	
	Design Information	

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Workload (ECTS) Calculation											
Events	Number	Dura	ation	ı (Ho	urs)	Tota	al wo	orklo	oad ((Hot	ırs)
Fieldwork				-						-	
Midterm Exam Application	1		2	2				2	2		
Self-Study (including pre-class and exam preparation)	14		2	2							
Make-up Exam	1		2	2				2	2		
Experiment and Observation											
Class Participation (Theory)	14		6	5				8	4		
Homework											
Final Exam Practice	1		2	2				2	2		
Laboratory											
Article Review											
Writing an Article											
Reading											
Case Study											
Performance											
Problem Solution	14		2	2		28					
Project Preparation											
Project Submission											
Quiz											
Report Preparation											
Submitting Reports											
Role/Drama Work											
Seminar											
Oral Exam											
Team/Group Work	14		4	1				5	6		
Argument											
Application/Practice											
Other											
TOTAL WORKL								20)2		
ECTS CREDITS OF THE COURSE: (The number obtained as a result of Total Workload/25 is calculated by rounding to the whole number.)											
Program Outco	omes (PO)	1	2	3 4	4 5	6	7	8	9	10	11

Program Outcomes (PO)		1	2	3	4	5	6	7	8	9	10	11
Ι	Learning Outcomes (LO) (Course Outcomes)											
1	To be able to explain the basic concepts of electricity and magnetism.	5	5	5	3	3	1	5	3	5	5	3
2	To be able to establish the relationship between electric charges and magnetic fields, to understand the physical events they cause.	5	5	5	5	2	1	5	3	5	4	5
3	To gain the ability to interpret, explain and relate events related to electricity and magnetism with mathematical solutions	5	5	5	4	5	1	5	5	5	3	4

Organizer: Prof. Dr. Fethi DAĞDELEN **Preparation Date:** 20.05.2024