Course Information												
Course Code	Т	Р	L	С	ECTS	<b>Туре</b> C/E	Language TR/ENG etc.		'ear/Semester			
FİZ4009	4	2	0	5	6	С	TR	4	4/FALL			
Course Nan (Turkis	h) Elektron	e Elektromanyetik Teori										
Course Nan (Englis	h) Electron	Electromagnetic Theory										
Unit/Program Physics Department/Undergraduate Program												
Course Prerequisite	No											
Course Objectives	To teach students to comprehend the concepts of electromagnetic field and problem solutions about the subject.											
Course Outline	e Electrostatic, electrodynamics and magneto-static and dynamic											
Textbook/ Material / Resources	Electromagnetic theory books and lecture notes											
Internship Status No												
			Course	Precede	ents							
University Name	Program Name Course Name		<b>T-</b>	P-L-C; ECI	S	Туре						
Eskisehir Osmangazi University	Physics		Electr	Electromanics Theory			<b>4-0-0-4</b> ; 7		С			
Gebze Technical University	Physics		Electr	tromanics Theory			4-0-0-4;6	<b>5</b>	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.)

**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 Member face-to-face.

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	<b>Opinion</b> (It should be given as a summary, it should not exceed two lines.)						

Weekly Course Content Distribution								
Week	Theory	Application/Laboratory						
1	Coordinate Systems							
2	Coordinate System Transformations and Finding a Unit Vector in a Coordinate System							
3	Operators (Curl, Divergence and Rotational)							
4	Electric Field							
5	Point Loads							
6	Fields							
7	Green Teoremi							
8	Image Method							
9	Midterm Exam							
10	Solution of Laplace's Equation							
11	Dielectrics							
12	Manyetostatic							
13	Maxwell's equations							
14	Electromagnetic Waves							
15	Finale							
16								

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

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

Workload (ECTS) Calculation													
	Events	Number	Du	ratio	on (I	Hou	rs)	Tota	ıl wo	orkla	oad (	Ποι	ırs)
	Fieldwork				-							-	
	Midterm Exam Application	1			2			2					
Self-Study (including pre-class and exam		9			2			18					
	Make-un Exam	1			2					2			
	Experiment and Observation	1			4					2			
	Class Participation (Theory)	14			6					0	4		
	Homowork	14			0					0'	t		
	Final Evem Dreatice	1			2					2	,		
		1			Z					Ζ			
	Laboratory												
	Article Review												
	Writing an Article												
	Coco Study												
	Borformanco	-											
Performance		14			2					2	0		
Problem Solution		14			2					Z	0		
Project Preparation Project Submission							_						
	Quiz												
	Report Preparation												
	Submitting Reports												
	Role/Drama Work												
	Seminar												
	Oral Exam	-											
Team/Group Work		9	2 18										
Argument											-		
Application/Practice													
Other													
						D:	154						
ECTE Opprime opprime opprime opprime					TE.	101							
(The number obtained as a result of Total Workload/25 is ca			is ca	lculo	ited	by			6	)			
	ro	unding to	the u	vhol	е пи	mbe	r.)						
Program Outcomes (PO)			1	2	3	4	5	6	7	8	9	10	11
Learning Outcomes (LO) (Course Outcomes)		_		-	_	-	-		-				
1	1 Can carry out independent and collaborative studies on			4	4	4	5	4	5	5	4	3	1
	Gain the knowledge and skills necessary to use												1
<sup>2</sup> experimental methods and data analysis techniques			5	4	4	4	5	4	5	5	4	3	-

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Organizer: Prof. Dr. Ali YEŞİL 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