

T.C. FIRAT UNIVERSITY

Course Syllabus Form

Document No	EGTM - 0001
Publication Date	13.09.2021
Revision Date	-
Revision No	n

Code and Name:

Responsibility

FIZ5440 APPLICATION OF MATHEMATICAL METHODS IN PHYSICS

Unit: Graduate School of Natural and Applied Sciences

Detail: Period: 2023-2024 Status: Optional Class: 1 Credits: 3-0-0-3 ECTS: 6 Language: Turkish

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	Instruct	OR			Course Assistan	T
Title, Name a	nd Surname: -			Title, Name and Surnar	me:	
	Phone:			Pho	ne:	
	Email:			Em	ail:	
So	cial Account: -			Social Accou	ınt:	
Student D	ay and Time: -			Student Day and Ti	me:	
Lessons Weekly	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Program:			-			
Rendering: Face-to-face lessons per week 3 It will be done on an hourly basis. Place: YY: Department of Physics Electromagnetic Wave Laboratory - UE: -						
Purpose:	Analysis of applications of mathematical methods in physics					
Material:	Mathematics methods textbook and lecture notes					
Student						

	Week	Topic			Method		
Weekly Lesson	1	Second-order differential equations			YY		
	2	Orthogonal functions					
	3	Gamma and Beta functions			YY		
	4	Special functions of physics			YY		
	5	Fourier Serisi			YY		
	6	Integral equations and transformations					
Plan	7	Principle of change: complex integrals and series					
Tun	8	Infinite se	Infinite series				
	9	Green's fu	Green's functions				
	10	Matrices	Matrices				
11 Special functions							
	12	Bessel Fnksiyons					
	13	Operators					
	14	What We Learned and Summary Y					
			Method	umbe	Weight		
		Exam	Face	1	% 50		
	Break Exam	Quiz	-	-			
Assessment and		Homework	-				
Evaluation		Project	-	-	-		
					% 5		
	ieneral Exam	Face 1					
	1	Some mathematical methods PC Applied to physical processes through a mak					
Cavers	2						
Course Outcomes:	3						
outcomes.	4						
5							

Course-Specific Explanations:

UE: Distance Education; **YY:** Face-to-Face Education



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