

T.C. FIRAT UNIVERSITY

Course Syllabus Form

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

Code and Name:

FIZ 5170 INTRODUCTION TO 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		ON			Γitle, Name and Surnan		1
Title, Name an	Phone:				Phoi		
	Email:				Ema		
Soc	cial Account: -				Social Accou	nt:	
Student Da	ay and Time: -				Student Day and Tin	ne:	
Laggang	Monday	Tuesday	Wadwaada		Thursday	Enida	Catuadan
Lessons	Monday	Tuesday	Wednesda	y	Thursday	Friday	Saturday
Weekly							
Program:			-				
n 1 1	T . C 1	1 0 1					
Rendering:		ns per week 3 It		n an h	iourly basis.		
Place:		t of Physics Electrom	agnetic	UE:	-		
	Wave Labora	tory -					
Purpose: Learning some mathematical methods and their applications in physics							
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Material:	Mathematical Me	thods in Physics Boo	k and Lecture	Notes	i		
Student							
Responsibility							

	Week	Topic			Method			
	1	Vector analysis						
Weekly Lesson Plan	2	Coordinat	Coordinate systems					
	3	Tensor analysis						
	4	Determinantlar						
	5	Matrices						
	6	Group theory						
	7	Infinite se	Infinite series: expansion of functions into series					
	8	Functions	Functions of complex variables					
	9	Legendre	equation and Polynomials		YY			
	10	Laguerre Polynomials						
	11	Hermic Po	olynomials	lynomials				
	12	Bessel functions						
	equation and solutions							
	14	What we learned and summary						
			Method	Number	Weight			
		Exam	Face	1	% 50			
	Break	Quiz	-	-				
Assessment and Evaluation	Exam	Homework	-					
	2214111	Project	-	-	-			
					% 5			
	General Exam	Face 1						
	1	Teaching some mathematical methods and their applications in physics						
Correct	2							
Course Outcomes:	3							
outcomes.	4							
	5							

Course-Specific Explanations:

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



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