N N I V A	ASIT P			C	T.C. Firat Unive ourse Syllab	rsity Dus Form			Document Publication Revision D Revision N	No Ean Date 1: Date - No 0	GTM - 0001 3.09.2021		
Code and	F İZ565 (0 REACTO	OR TECHNO	OLOGY									
Unit: (Graduate S	School of Nati	ural and Applie	d Sciences									
Detail:	Period:	2023-2024	Status:	Optional	Class: 1	Credits:	3-0-0-3	ECTS: 6	Languag	e: Turkisł	ı		
		INSTRUCTO	R					COURSE AS	SSISTANT				
Title, Name an	d Surnam	e:				Гitle, Name	and Surna	me:					
	Phon	e:					Pho	one:					
	Ema	il:					En	nail:					
Soc Student Da	ial Accour	it: -				Student	ocial Acco	unt:					
-	., and third				TAT I I	Student							
Lessons	Monday		Tuesday		Wednesday	Thursday Fride		ay Satu		rday			
Program:					_								
i rogrum.													
Rendering:	Face-to	-face lessons	per week 3	It will be	done on an ho	urly basis.							
Place:	11: -				UE:	-							
Durmona	To unde	erstand how	neutrons react	in nuclear	fuel and their r	ole in nuclea	r energy p	roduction. To	learn the	chain effect	t of fission		
Purpose:	time. Und	and their ef lerstanding h	lects on reacto	el burns an	nd operation. d produces ene	rgy and the i	benavior a	and control n he combustio	n process	s of the rea	efficiency.		
Matorial	Fundon	pontals of Nu	cloar Poactor E	hycics I	E Louris 200	Q	P · · · · ·		F ·····				
Muteriui.	Funden	lientais of Nu		llysics, i	1. E. LEWIS, 200	0.							
Student Responsibility :	Attendin	g classes, sub	mitting assign	ments on t	ime, and partic	ipating in ex	ams.						
	Week	Topic									Method		
	1	Basic Reactor Technique							YY				
Weekly Lesson Plan	2	Neutron Nuclear Reactions								YY			
	3	Neutron Chain Fission Reactors							YY				
	4	Neutron Energy Dissipation								YY			
	5	Nuclear Reactor Dynamics								YY			
	6	Fuel Combustion									YY		
	7	Nuclear Power Reactors							YY				
	8	Reactor Safety							YY				
	9	Advanced Reactor Physics							YY				
	10	Neutron Physics							YY				
	11	Absorpsy Reasoning								YY			
	12	Neutron Termalization								YY			
	13	Perturbation Methods									YY		
	14	Variationa	I Methods							Jumbor	YY		
Assessment and Evaluation		Fyam	Face								0% 50		
		Ouiz	-							1	% 50		
	Break Exam	Homework	-							-			
		Project									_		
		110,000											
	General Exam	Face	I							1	% 5 0		
	1	Learn about the various types of nuclear reactors and their use in energy production.											
	2	Obtain knowledge about the precautions and safety systems required for the safe operation of nuclear reactors											
Outcomes	3	Learn more advanced concepts and theories of reactor physics.											
outcomes:	4	Examines	how neutrons	move with	in a reactor an	d the impact	of this mo	vement on re	actor desig	gn			
	5	Understands the absorption of neutrons by materials and its impact on reactor design.											
Course-Specif	ic Explar	nations:											
UE: Distance E	Education	; YY: Face-t	o-Face Educa	tion									

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