A UNIVE	*s			T.C.				тм – 0001 .09.2021		
, <b>1</b>	LTF			FIRAT UNIVER		R	Revision Date -	.09.2021		
	2			Course Syllabu	IS FORM	R	Revision No 0			
Code and Name:	FIZ5620 RADIATION DETECTION AND MEASUREMENT METHODS									
	Graduate S	chool of Natu	ral and Applied Sci	ences						
Detail:	Period:	2023-2024	Status: Opt	ional Class: 1	<b>Credits:</b> 3-0-0-3	ECTS: 6 L	anguage: Turkish	l		
		INSTRUCTO	R			Course Assis	STANT			
Title, Name an			**		Fitle, Name and Surna					
	Phone	e:			Pho	one:				
Email:						ail:				
Soc Student Da	ial Accoun				Social Accou Student Day and Tin					
	-				_					
Lessons	Monday		Tuesday	Wednesday	Thursday Frida		Satur	rday		
Weekly Program:				_						
Rendering:		face lessons	perweek 3 Itw	ill be done on an hou	rly basis.					
Place:	YY: - UE: -									
Durnosa	Students will learn about different types of radiation sources (fast electrons, heavy particles, electromagnetic radiation, neutrons) and how these sources interact with various media. In addition, they will obtain detailed information about the									
	neutrons) and how these sources interact with various media. In addition, they will obtain detailed information about the structure, working principles, modeling and radiation dose measurements of radiation detectors.									
	1. Radiation Detection and Measurement. Glenn F. Knoll 2. From Radiation and Radiation Korunma Fiziği, James									
Material:	1. Radiation Detection and Measurement. Glenn F. Knoll 2. From Radiation and Radiation Korunma Fizigi, James E. Martin									
Student										
Responsibility	Class par	ticipation, ho	mework, project							
:										
	Week	Торіс						Method		
	1	Introductio	on to Radiation Sou	rces: Basic types and	sources of radiation			YY		
	2	Unit Definitions and Basic Concepts						YY		
	3									
	4	Heavy Particle Sources: Heavy particle production and properties						YY YY		
	5	Sources of electromagnetic radiation								
Weekly Lesson	6	Neutron Sources: Generation of neutrons and their uses						YY		
Plan		Radiation E Schemes						YY		
	8 9	Heavy Particle Interactions						YY YY		
	10	Neutron and Gamma Interactions Ceneral Structure and Modeling of Padiation Detectors						YY		
	10	5								
	11									
	13							YY YY		
	14			diation Spectroscopy	0			YY		
			Method	. 17			Number	Weight		
Assessment and Evaluation		Exam	Face				1	% 50		
	Break	Quiz	-				-	-		
	Fyam	Homework					-	-		
		Project					-	-		
	General	Face						% 5		
	Exam	гасе					1	% 5 0		
		Students wil	ll understand the va	arious sources and tvi	oes of radiation and co	mprehend the f	undamental charac			
	1	Students will understand the various sources and types of radiation and comprehend the fundamental characteristics of these radiation types.								
Course Outcomes:										
	4									
	5		ll develop skills in a	nalyzing and interpre	eting radiation data					
<b>Course-Specif</b>	ic Explan	ations:								

VNIV ************************************	T.C. Firat University Course Syllabus Form	Document No Publication Date Revision Date Revision No	Едтм – 0001 13.09.2021 - 0
UE: Distance Education; YY: Face-to-F	Face Education		