



Code and Name: FİZ5520 NUCLEAR ENVIRONMENTAL

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

INSTRUCTOR

Title, Name and Surname:

Phone:

Email:

Social Account:

Student Day and Time:

COURSE ASSISTANT

Title, Name and Surname:

Phone:

Email:

Social Account:

Student Day and Time:

Lessons Weekly Program:	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
			-			

Rendering: Face-to-face lessons per week 3 It will be done on an hourly basis.

Place: **YY:** - **UE:** -

Purpose: Students, radiation how species interact with matter and how to interpret the spectrum that emerges after the interaction, and what that it makes sense they will learn. They will also learn the corrections that need to be made for an accurate and precise measurement of activity.

Material: 1. Radioactivity In The Environment, Vlado Valković 2. *Radioactive Waste Management*, Ahmet Erdal Osmanlıoğlu

Student Responsibility : Class participation, homework, project

Weekly Lesson Plan	Week	Topic		Method	
	1	Types and Sources of Radiation		YY	
	2	Natural Radioactivity		YY	
	3	Uses of Radiation		YY	
	4	Biological basis of radiation protection		YY	
	5	Standards of Radiation Protection		YY	
	6	Nuclear Reactors		YY	
	7	Reprocessing of Nuclear Fuels		YY	
	8	Radioactive Wastes		YY	
	9	Environmental Radioactive Pollutants		YY	
	10	Nuclear Weapons and Their Environmental Impact		YY	
	11	Radioactive Evaluation		YY	
	12	Radioactive Waste Management		YY	
	13	Disposal of Nuclear Waste		YY	
	14	Introduction to Radioactive Modeling		YY	
Assessment and Evaluation	Method			Number	Weight
	Break Exam	Exam	Face	1	% 50
		Quiz	-	-	-
		Homework			
		Project			
	General Exam	Face		1	% 50
Course Outcomes:	1	Students will have a general knowledge of radiation.			
	2	Students will learn the uses of radiation and the methods of protection.			
	3	Students will have knowledge about issues such as processing, storage and disposal of radioactive wastes.			
	4				
	5				

Course-Specific Explanations:

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



T.C.
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Course Syllabus Form

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