



Code and Name: FİZ5240 ADVANCED NUCLEAR 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

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: Nuclear Physics and Core Structure Providing information about.

Material: Introductory Nuclear Physics. Samuel Wong, Second Edition

Student Responsibility: Lesson 1 e Re and exams accession .

Weekly Lesson Plan

Week	Topic	Method
1	Nuclear Reactions	YY
2	Nuclear Reaction Energies	YY
3	Reaction Impact Sections	YY
4	Optics Model	YY
5	Unified Core Reactions	YY
6	Neutron Physics, Neutron Detectors	YY
7	Nükleer Fisyon	YY
8	Controlled Fission Reactions	YY
9	Nuclear Fusion	YY
10	Controlled Fusion Reactions	YY
11	Accelerators	YY
12	Nuclear Spin and Moments	YY
13	Nuclear Astrophysics Applications of Nuclear Physics	YY
14	Nuclear Reactors	YY

Assessment and Evaluation

Method		Number	Weight
Break Exam	Exam	1	% 50
	Quiz	-	-
	Homework	-	-
	Project	-	-
General Exam	Face	1	% 50

Course Outcomes:

1	Nuclear physics of the student k To have information about
2	Student To be able to interpret fusion and fusion events
3	Student's nucleus Working prince of ER reactors Bini Clutch
4	Student To be able to calculate the cross-sectional area of the reaction effect
5	Student's nuclear Gain knowledge about physics applications

Course-Specific Explanations:

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



T.C.
FIRAT UNIVERSITY
Course Syllabus Form

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