Code and Name:	**FIZ 5640 BEHAVIOR OF RADIO WAVES IN THE IONOSPHERE**
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:** **Department of Physics Electromagnetic Wave Laboratory** **UE:** **-**

Purpose: **Analyzing the behavior of HF frequency waves in the ionosphere**

Material: **Plasma Waves Textbook and Lecture Notes**

Student Responsibility :

Weekly Lesson Plan

Week	Topic	Method
1	Characteristics of Plasma Media and Waves	YY
2	Radio Spectrum	YY
3	Characteristics of the Propagation Medium	YY
4	Homogeneous and Inhomogeneous Environments	YY
5	Isotopic and Non-Isotopic Media	YY
6	Characteristics of the Wave	YY
7	Plane Waves	YY
8	Wave Packs	YY
9	Maniac Theory	YY
10	Polarization	YY
11	Vertical and Oblique Propagation	YY
12	Amplitude and Phase, Power Loss, Attenuation	YY
13	Damping in the Ionosphere	YY
14	Ionosphere Concepts, Morphology of the Ionosphere	YY

Assessment and Evaluation

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

Course Outcomes:

1	To be able to obtain plane wave solutions in the ionosphere and to teach reflection, damping, refraction and propagation states
2	
3	
4	
5	

Course-Specific Explanations:

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