



Code and Name:

FİZ5080 INTRODUCTION TO ELECTRODYNAMICS

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

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Weekly

Program:

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:

Electromagnetic Wave Solutions in different environments

Material:

Plasma Physics Book

Student

Responsibility

:

| Week | Topic | Method |
|------|---|--------|
| 1 | Identification of electromagnetic parameters | YY |
| 2 | Behavior of Charged Particles in Electric and Magnetic Environments | YY |
| 3 | Stationary Electric Fields | YY |
| 4 | Stable Electric Currents | YY |
| 5 | Time-Varying Fields and Maxwell's Equations | YY |
| 6 | Plane Electromagnetic Waves | YY |
| 7 | Plane Electromagnetic Waves in Lossy and Lossless Media | YY |
| 8 | Polarization of Electromagnetic Waves | YY |
| 9 | Waveguides | YY |
| 10 | Cavity Resonators | YY |
| 11 | Maxwell equivalences solutions under different conditions | YY |
| 12 | Dielectric Buildings | YY |
| 13 | Reflection | YY |
| 14 | Refraction | YY |

| Assessment and Evaluation | Method | | | Number | Weight |
|---------------------------|--------------|----------|------|--------|--------|
| | Break Exam | Exam | Face | 1 | % 50 |
| | | Quiz | - | - | |
| | | Homework | - | | |
| | | Project | - | - | - |
| | General Exam | Face | | 1 | % 50 |

| Course Outcomes: | 1 | |
|------------------|---|--|
| | 2 | |
| | 3 | |
| | 4 | |
| | 5 | |

Course-Specific Explanations:

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



T.C.
FIRAT UNIVERSITY
Course Syllabus Form

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|------------------|-------------|
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| Revision Date | - |
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