



Code and Name:

FİZ5530 SPATIAL AND TEMPORAL ANALYSIS IN 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:

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Phone:

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Email:

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Social Account:

.....

Student Day and Time:

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Lessons

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Weekly

Program:

-

Rendering:

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

Place:

YY: -

EU: -

Purpose:

Students will learn the principles of modeling ,how to do spatial analysis and forecasting.

Material:

1. Spatial Modelling Principles in Earth Sciences ,Zekai Sen 2. Statistics Spatial Data, Noel A.C. Cressie

Student Responsibility :

Class participation, homework, project

Weekly Lesson Plan

Week	Topic	Method
1	Introduction to Radioisotope	YY
2	Modeling Principles	YY
3	Methods Based on Physical Location	YY
4	Variogram Estimation	YY
5	Dot Total Semivariogram	YY
6	Spatial and Temporal Analysis	YY
7	Weight Methods Calculations	YY
8	Spectral Representations	YY
9	Creating a Variogram Model	YY
10	Spatial Estimation and Kriging	YY
11	Ordinary Kriging	YY
12	Eurentel Kriging	YY
13	Special Topics for Spatial Data	YY
14	Applications of Random Methods	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 gain the ability to perform statistical analysis.
2	Island Pupil s, will have knowledge about statistical distributions.
3	Students Learn how to determine the parameters to be used in modeling.
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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