



**MARMARA UNIVERSITY
FACULTY OF ENGINEERING
ENVIRONMENTAL ENGINEERING DEPARTMENT**

**ENVE 4197/4198 ENGINEERING PROJECT
PROPOSAL FORM
FALL 2023-2024**

Instructor : Assoc. Prof. Sedat YALÇINKAYA

Project Title : Earthquake risk index story map of environmental facilities in Istanbul.

Proposal No. :

Number of Students : 3

Requirements (from students) : Fundamental GIS knowledge, or registration to ENVE 4094 - GIS in Water Resources

Scope of the Project :

Information about environmental facilities such as coordinates, capacity, service area, start date, age, etc. that may affect the earthquake risk of the facility will be collected. Earthquake risk indices will be calculated for each facility. Tabular data will be converted into georeferenced data and a geodatabase will be established. Finally, a website (story map) consisting of text, tables and maps will be created and published.

Hardware/Software/Lab/Equipment Requirements :

Laptop or desktop with simple hardware and software installed.
GIS software.

Development Plan :

Work Step	Schedule (weeks)
Literature review & software setup	1-6
Data acquisition	7-14
Calculation of earthquake risk indices	15-19
Geodatabase design and generation	19-22
Creating the story map	23-26
Report writing & Poster preparation	26-28