



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

**ENVE 4197/4198 ENGINEERING PROJECT  
PROPOSAL FORM  
FALL 2022-2023**

**Instructor :** Kamil Erkan

**Project Title :** Investigation of landslide hazard in Yalova Province

**Proposal No. :** 1

**Number of Students :** (Max 4 students) 3

**Requirements (from students) :** Each student is required to participate at least 80% of the project meetings and spend about 4 hours/week on the tasks given by the instructor.

**Scope of the Project:** Landslides are one of the important natural hazards in Turkey and they can cause significant economic loss. The purpose of the project is to analyze various parameters (such as geological setting, hydrological properties of the ground, and terrain topography, etc.) to understand the spatial distribution of landslide hazard and risk in Yalova Province. The students will work on various geospatial data using the Surfer Software.

**Hardware/Software/Lab/Equipment Requirements:** A PC with Windows Operating System.

During the first weeks of the project, the students will learn how to use the Surfer program through instructive exercises.

**Development Plan:**

1. Literature Review / Surfer training
2. Data Collection
3. Data Analysis and Modeling
4. Project Report