



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

**ENVE 4197/4198 ENGINEERING PROJECT
PROPOSAL FORM
FALL 2019**

Instructor : Dr. Kamil Erkan

Project Title : Hydrological Characterization of the Thrace Basin in Turkey

Proposal No. : KamilErkan-1

Number of Students : 3

Requirements (from students): Students are required to perform the weekly tasks assigned by the instructor.

Scope of the Project: Freshwater resources of the Thrace basin in Turkey have been under tension as a result of excessive usage for industrial and irrigation purposes. In this project, the hydrological character of the basin will be studied. For this purpose, input (precipitation, groundwater) and output (runoff, infiltration, evapotranspiration) parameters will be investigated for the basin using available climatic, hydrological, and geological information.

Hardware/Software/Lab/Equipment Requirements: Most calculations will be made using Excel and SURFER programs. SURFER program will be used for both modeling and mapping tasks. The program will be supplied by the instructor. Prior use of SURFER program is a plus but not a requirement.

Development Plan :

1. Literature review
2. Data collection
3. Data analysis
4. Hydrological modeling
5. Writing the project report