**MARMARA UNIVERSITY**

**FACULTY OF ENGINEERING**

**ENVIRONMENTAL ENGINEERING DEPARTMENT**

**ENVE 4197/4198 ENGINEERING PROJECT**

**PROPOSAL FORM**

**FALL 2021-2022**

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| **Instructor: Dr. Kamil Erkan** **Project Title: TEMPORAL VARIATIONS IN THE HYDROLOGICAL CONDITONS OF ERGENE BASIN****Proposal No.:** 1**Number of Students:** (Max 4 students) 3**Requirements (from students):** Eachstudent isrequired to do the tasks given by the advisor in a weekly basis. |
| **Scope of the Project:** Ergene Basin is an important water resource of Turkey because of large-scale agricultural activities in the basin. The groundwater resource ofthe basin has been diminishing due to many years for irrigation and industrial activities. The climate change is also expected to have an impact on the water budget of the basin. This project aims to investigate water balance parameters (precipitation, evapotranspiration, etc.) between 1980-2000 in selected sub-basins using spatial data analysis tools. Temporal changes in the evapotranspiration rates will be of particular focus.  |
| **Hardware/Software/Lab/Equipment Requirements:** A PC with Windows OS and MS Office suite is needed for each student. Student will install and use SURFER and Google Earth software for this project. No prior knowledge for the use of software is required. |
| **Development Plan:**1. Installation and orientation for the software
2. Literature review on the methodology
3. Data collection
4. Data Analysis
5. Interpretations of the results
6. Report writing
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