**MARMARA UNIVERSITY**

**FACULTY OF ENGINEERING**

**ENVIRONMENTAL ENGINEERING DEPARTMENT**

**ENVE 4197/4198 ENGINEERING PROJECT**

**PROPOSAL FORM**

**FALL 2022-2023**

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| **Instructor:** Elif Soyer  **Project Title:** Organic matter adsorption in drinking water treatment  **Proposal No:** 2  **Number of Students:** 3  **Requirements (from students):** Students are required to conduct experiments, analyze data and present their work once every two weeks. An extended summary of the interpretations and conclusions in a scientific paper format is expected at the end of the study. |
| **Scope of the Project:** Removal of organic matter from synthetic waters will be investigated by conducting adsorption experiments. Adsorption isotherms will be determined and experimental results will be evaluated by comparing performance of adsorbents. |
| **Hardware/Software/Lab/Equipment Requirements:** Orbital shaker, heated circulated water bath, dry air, glassware, membrane cell, total organic carbon analyzer, UV-vis spectrometer |
| **Development Plan:**  Gathering information about the procedures and methods will be used in this project.  Choosing and collecting appropriate glassware, chemicals, and equipment.  Conducting experiments within the scope of experimental matrix.  Interpretation of the results. |