**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. |