



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

**ENVE 4197/4198 ENGINEERING PROJECT  
PROPOSAL FORM  
FALL 2019-2020**

**Instructor : Elif Soyer**

**Project Title:** Filter media testing methods & filterability

**Proposal No:** ElifSoyer\_1

**Number of Students : 2-3**

**Requirements (from students) :**

Students will be required to conduct experiments, analyze the 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 :**

The proposed project focuses on the use of different filter materials in granular filtration.

**Hardware/Software/Lab/Equipment Requirements :**

Filter columns, different filter materials, turbidity meter, particle counter, headloss measurement piezometers, chemical pre-treatment units

**Development Plan :**

- Gathering information about the procedures and methods will be used in this project.
- Choosing and collecting appropriate glassware, chemicals, and equipment.
- Preparation of the glass medium (crushing and sieving).
- Characterization of the filter media.
- Testing the prepared filter medium for different conditions.
- Interpretation of the results and preparation of a thesis report
- Poster presentation at the end of the semester.