



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

**ENVE 497/498 ENGINEERING PROJECT
PROPOSAL FORM
FALL 2015**

Instructor: Ömer Akgiray – Elif Soyer

Project Title: Filter Media Testing Methods: Use of Filterability Test for Water Treatment

Proposal No.: *OAkgiray_2017*

Number of Students: 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:

Different types of filter media will be crushed, pre-treated, sieved and characterized using standard filter media testing methods. Prepared medium will be used in filtration tests and its effectiveness will be compared to that obtained with using silica sand as filtration medium.

Hardware/Software/Lab/Equipment Requirements:

Sieve shaker and standard sieves, pycnometer bottle, filtration column

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