



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

**ENVE 497/498 ENGINEERING PROJECT  
PROPOSAL FORM  
FALL 2017**

**Instructor :** Zehra Semra Can

**Project Title :** Color removal by adsorbents prepared by different polymers.

**Proposal No. :** *ZehraSCan-1*

**Number of Students :** 2

**Requirements (from students):** Students should spend a minimum of **8 hours** in the lab each week.

**Scope of the Project :**

Nanosized or bead sized adsorbents will be prepared using different polymers such as chitosan. Sorption process by different adsorbents will be studied with regard to the color removal from real textile industry wastewater. The adsorption equilibrium will be evaluated using the adsorption models.

TÜBİTAK 2209B proposal will be prepared for this project by Burçin Saygın.

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

Temperature controlled shaker  
UV-Vis spectrophotometer

**Development Plan :**

Literature search on the subject to have a better understanding of the process.  
To perform batch controlled adsorption tests.  
To analyze the data and prepare an oral presentation, poster presentation and a written report.