



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

**ENVE 497/498 ENGINEERING PROJECT
PROPOSAL FORM
FALL 2016**

Instructor : Orhan Gökyay

Project Title : Sludge Drying Using Microwave

Proposal No. : 1

Number of Students : 3 - 4

Requirements (from students) : None

Scope of the Project : Trying to reduce sludge volume using microwave. Moreover, control the COD, TS, VS of the sludge.

Hardware/Software/Lab/Equipment Requirements : Microwave oven, 105°C oven, 550°C oven, COD reactor, thermometer.

Development Plan : First, sludge volume reduction will be defined with different power inputs and time. COD, TS, VS reduction will be measured. Then , effect of sludge amount and condition of sludge will be investigated using microwave oven.