



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

**ENVE 4197/4198 ENGINEERING PROJECT
PROPOSAL FORM
FALL 2023**

Instructor : Orhan Gökyay

Project Title : The Effect of Dewatered Sludge on the Development of Strawberry Plants Obtained by Different Treatment Methods from the Final Sedimentation Tank of Different Treatment Facilities

Proposal No. : 1

Number of Students : 3 - 4 (Dürrin Babaoğulları, Müberra Ocak, Zeynep Akyüz, Zeynep Çuhadar)

Requirements (from students) : None

Scope of the Project : It is aimed to examine the use of dewatered sewage sludge in agriculture because it contains rich micro and macro nutrients and its effects on plants.

Hardware/Software/Lab/Equipment Requirements : PC and internet, access to the Marmara University library, Enve Lab

Development Plan : In order to observe the development and yield criteria of the strawberry plant in the dewatered sludge samples obtained with different treatment methods in different treatment plants, strawberry plants will be planted in three pots and two of them will be grown with dewatered sludge samples taken from different facilities and the other one will be grown by adding only plant soil and water. By mixing dewatered sludge and plant soil in the ratio of 1:1, 1:2 and 1:10, it is aimed to reach the optimum dosage and which facility's dewatered sludge gives the most ideal results and to observe the development of the strawberry plant in detail.