

**LIST OF TOPICS OFFERED BY THE ADVISORS FOR ENVE 490**  
**(2023-2024 II. )**

**Doc. Dr. Y. Dilşad YILMAZEL TOKEL**

1. Life Cycle Assessment Inventory Analysis for Bioenergy Production Systems
2. Nitrogen and Phosphorus Recovery from Wastes as Struvite: Optimization of Fluidized Bed Reactor Operational Conditions
3. A Novel Hybrid Reactor Design and Operation for Sustainable Domestic Wastewater Treatment without the need of oxygen: AFMBR  
(Co-advisor: Prof. Zeynep Culfaz from Chemical Engineering Department)
4. Literature Review: Is there a future for the recently developed Bioelectrochemical Anaerobic Digestion Systems?
5. Cost and Feasibility Analysis of Anaerobic Digestion - Microbial Electrolysis Cell (AD-MEC) systems

**Prof. Dr. Tuba Hande Ergüder Bayramođlu**

1. Photofermentative bio-H<sub>2</sub> production by microfiber flock surface biofilm reactor
2. Investigation of microalgal-bacteria consortium development