



Second Stage Graduation Projects Academic Year 2025–2026 / (Evening Study)

No.	Project Title	Project Objective	Supervisor
1	Improving Thermal Insulation in Pipes and Tanks of the Oil Industry	Study methods to enhance thermal insulation efficiency, reduce heat loss, protect assets, and increase productivity	Assoc. Prof. Saleh Mahdi Saleh Atiya
2	Improving Heat Exchanger Performance Coefficient in Refining Units	Identify types and uses of heat exchangers and methods to increase their efficiency	—
3	Study of Corrosion Problems in Electric Submersible Pumps in Oil Fields	Identify factors affecting pump performance under different conditions and treatment methods	—
4	Recycling Solid Waste from Oil Refineries	Achieve balance between industrial development and environmental protection while economically utilizing neglected resources	Ph.D. Ali Kazem Hadi
5	Practical Study of a Parallel-Flow Heat Exchanger	Manufacture a parallel-flow heat exchanger and measure hot and cold water temperatures	Assist. Prof. Karim Jaafar Alwan
6	Practical Study of a Counter-Flow Heat Exchanger	Manufacture a counter-flow heat exchanger and analyze inlet and outlet temperatures	Assist. Prof. Karim Jaafar Alwan
7	Crude Oil Quality Analysis Using Digital Image Processing	Analyze color and viscosity using image-processing algorithms (e.g., histogram, HSV) to estimate crude quality	Assoc. Prof. Firas Fadhil Mohammed
8	Development of an IoT System for Monitoring Temperature and Pressure in Distillation Units	Design a smart IoT-based system using sensors and wireless data transmission for real-time monitoring	—
9	Application of Deep Learning Techniques to Detect Oil Spills from Aerial or Satellite Images	Use CNN-based deep learning models to detect oil leakage from drone or satellite images	—
10	Study of Optimal Methods for Producing High-Octane Gasoline in Iraqi Refineries	Introduce global production methods and determine the most suitable for Iraqi refineries	Assist. Prof. Hassan Hadi Salman
11	Study of Optimal Production Methods for Associated Gas Utilization in Iraqi Oil Fields	Identify best production techniques for investing associated gas	Assist. Prof. Hassan Hadi Salman



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12	Improving Thermal Insulation Systems in Transport Pipes inside Refining Units	Reduce energy consumption and improve unit safety	M.Sc. Radhwan Abbas Faleh
13	Design and Operation of a Mini Distillation Unit for Crude Oil Analysis	Design a continuous and safe mini distillation unit and analyze products	M.Sc. Walaa Ali Naji
14	Study of the Effect of Density and Viscosity on Crude Oil Refining Efficiency	Analyze physical properties and their relationship with petroleum product quality	Dr. Naseer Wissam