



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

| <b>No.</b> | <b>Project Title</b>  | <b>Project Objective</b>   | <b>Supervisor</b>                              |
|------------|---|--|--|
| 1          | Design of an Early Warning System to Detect Deviation from Optimal Storage Conditions of Petroleum Products | Prevent gas leakage and measure temperature and humidity to maintain ideal storage conditions for petroleum products                         | M.Sc. Harith Mahdi<br>Abdul-Jawad              |
| 2          | Design of an Air Quality Monitoring System in the Work Environment of Oil Fields                            | Raise awareness among workers about the dangers of air pollution and methods of early prevention through detection using the proposed system | M.Sc. Harith Mahdi<br>Abdul-Jawad              |
| 3          | Study of the Effect of Pressure and Temperature on Distillation Efficiency in Refining Units                | Improve industrial process performance and ensure petroleum product quality  | Ph.D. Ali Kazem<br>Hadi                        |
| 4          | Pipe-in-Pipe Heat Exchanger   | Train students on operating pipe-in-pipe heat exchangers and conducting experiments on parallel and counter-flow systems                     | Assist. Prof. Karim<br>Jaafar Alwan            |
| 5          | Practical Comparison of the Best Types of Crude Oil for Iraqi Oil Fields                                    | Introduce students to standard crude oil specifications, especially hydrocarbon composition and harmful impurities                           | Assist. Prof. Hassan<br>Hadi Salman            |
| 6          | Thermal and Mechanical Performance Evaluation of Heat Exchangers in Refining Units                          | Improve heat-exchanger design or propose periodic cleaning/maintenance to enhance efficiency   | M.Sc. Radhwan<br>Abbas Faleh                   |
| 7          | Evaluation of Local Crude Oil Quality and Its Effect on Refining Efficiency                                 | Improve refining efficiency and reduce operating costs   | Head of Department<br>– M.Sc. Sahar<br>Hussein |
| 8          | Study of Paraffinic Compounds in Crude Oil  | Study crude oil and determine its chemical and physical properties   | —  |



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| 9          | Study of the Environmental Impact of Oil on Human Health | Rationalize consumption and reduce pollution through improved methods                    | M.Sc. Walaa Ali Naji |
| 10         | Design of a Double-Pipe Heat Exchanger                   | Transfer heat between two fluids through a pipe wall using an efficient exchanger design | —                    |