**DESIGN PROJECT PROPOSAL FORM**

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| **Academic Year** | **2024 -2025** | **Semester** | Fall Spring X |
| **Project Type** |  **Research**  |  **Application** |
|  ME 411 Thermal & Fluid Design |  ME 412 Thermal & Fluid Design |
|  ME 413 Mechanical Design | X ME 414 Mechanical Design |
|  ME 415 Robotics & Control Design |  ME 416 Robotics & Control Design |
| **Advisors** | Assoc. Prof. Levent Aydın |

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| **Project Title** | Optimal Design of an automotive structure using AI modeling |
| **Purpose and Scope** | Main objectives of this work are:* having additional information on relevant automotive structures,
* investigating main types of optimization methods and their industrial applications,
* having skills on the modeling strategies based on AI,
* evaluation on the overall performance.
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| **Work Packages** | WP1: Introduction – Literature Survey WP2: Data analysisWP3: Analytical-theoretical calculations for the proposed designs WP4: Numerical analyses for the automotive structureWP5: Preparation of the final documentation.  |
| **Max Number of Students** | 4 |
| **Student info** | Student ID | Name/Surname | Signature |
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