**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. | | |
| **Work Packages** | WP1: Introduction – Literature Survey  WP2: Data analysis  WP3: Analytical-theoretical calculations for the proposed designs  WP4: Numerical analyses for the automotive structure  WP5: Preparation of the final documentation. | | |
| **Max Number of Students** | 4 | | |
| **Student info** | Student ID | Name/Surname | Signature |
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