



DESIGN PROJECT PROPOSAL FORM

Academic Year	2022 -2023	Semester	Fall <input type="checkbox"/> Spring <input checked="" type="checkbox"/>
Project Type	Research <input type="checkbox"/> ME 411 Thermal & Fluid Design <input type="checkbox"/> ME 413 Mechanical Design <input type="checkbox"/> ME 415 Robotics & Control Design	Application <input type="checkbox"/> ME 412 Thermal & Fluid Design <input checked="" type="checkbox"/> ME 414 Mechanical Design <input type="checkbox"/> ME 416 Robotics & Control Design	
Advisor	Prof. Dr. Kutlay SEVER		
Project Title	Investigation of the influence of surface treatment on adhesive bond strength of polymer composite materials		
Purpose and Scope	The demand for light and strong structures increases and there are applications where dissimilar materials are used together to obtain monolithic structures. The use of metal and fiber reinforced polymer composite materials has become widespread in various engineering applications such as automotive, aerospace and marine. Aim of this study is to investigate the mechanical properties of polymer composite-aluminium joints.		
Work Packages	-Literature study on fiber reinforced polymer composites, surface treatments and adhesive joints -Manufacturing of adhesive single lap joints -Mechanical properties of the joints will be determined by performing tensile and 3 point bending tests.		
# of Team Members	2		
This section to be filled by the Commission	The Project Proposal <input type="checkbox"/> is approved. <input type="checkbox"/> should be revised considering the following suggestions:		