



DESIGN PROJECT PROPOSAL FORM

Academic Year	2022-2023	Semester	Fall <input type="checkbox"/> Spring X
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	Dr. Aydın ÜLKER		
Project Title	Design and manufacturing of fisherman's hook tying machine.		
Purpose and Scope	<p>The purpose of the project is to design and manufacturing of machine tying a hook without an eye to make a snell knot. The machine is excepted to tie any size of fishing line on any size of a fishing hook. But design can be limited with hook size "3/0" and 0.50 mm monofilament fishing line.</p> <p><u>Design Data and Constrains for the Project:</u></p> <p>Fishing line diameter : 0.50 mm Hook size : 3/0 without an eye on the shank Fishing line type : Monofilament polyamide Max. machine weight : 300 g Max. machine size : 500 cc Max. operation time : 15 s</p> <p>* The machine cannot be supplied by the main voltage.</p>		
Work Packages	<ul style="list-style-type: none">• Project Plan• Literature survey with a complete description of concepts that will be planned to use.• Conceptual design• Feasibility study• Embodiment design• Detailed design calculations (mechanical, electrical, etc.)• Detail engineering drawings (Exploded, assembly, and part drawings including electrical and wiring diagrams)• Cost analysis• User's manual• Complete project report		
# of Team Members	<ul style="list-style-type: none">• Maximum three senior students.• Students must be in 4th year standing to take this project.• It is strongly recommended that students should have passed design and manufacturing courses (ME 311, ME 312, ME 361, ME 362, and ME 413) before attempting to take ME 414.		
This section will be filled by the Commission	<p>The Project Proposal</p> <p><input type="checkbox"/> fulfills the regulations of the Department</p> <p><input type="checkbox"/> should be revised according to the following suggestions:</p>		