

IZMIR KATIP CELEBI UNIVERSITY FACULTY OF ENGINEERING ARCHITECTURE MECHANICAL ENGINEERING DEPARTMENT

Form No: FRM-1

First Pub Date: 15/11/2016

Rev. No/Date: 25/01/2017

DESIGN PROJECT PROPOSAL FORM

Academic Year	2022-2023	Semester	Fall \square	Spring X
	Research Application			
Project Type	☐ ME 411 Thermal & Fluid Design	n □ ME 41	2 Thermal & F	luid Design
	☐ ME 413 Mechanical Design ■ ME 414 Mechanical Design			
	☐ ME 415 Robotics & Control Design ☐ ME 416 Robotics & Control Design			
Advisor	Dr. Aydın ÜLKER			
Project Title	Design and manufacturing of a machine climbing over a rope			
Purpose and Scope	The purpose of the project is to design and manufacturing of a machine that is climbing over an unstretched (free-ended) and randomly knotted polyester rope suspended from the ceiling. The machine is also expected to descend on the same path. Design Data and Constrains for the Project: Rope diameter			
Work Packages	 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	 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 			



IZMIR KATIP CELEBI UNIVERSITY FACULTY OF ENGINEERING ARCHITECTURE MECHANICAL ENGINEERING DEPARTMENT

Form No: FRM-1

First Pub Date: 15/11/2016

Rev. No/Date: 25/01/2017

	The Project Proposal
This section will be filled by the	☐ fulfills the regulations of the Department
Commission	☐ should be revised according to the following suggestions: