Alanya Alaaddin Keykubat University | Rafet Kayış Faculty of Engineering Mechanical Engineering Department 2022-2023 Fall Semester

Syllabus							
Code/Name	MEC 401 / Mechanical Engineering Design						
Туре	Required						
Credit/ECTS	6/6						
Hour per Week	3 (0+3+0)						
Level/Year	Undergraduate/4						
Semester	Fall						
Classroom	assroom TBA TBA						
Content	Design methodology in mechanical engineering through an open-ended, in-depth design project. Design, manufacturing, and testing of a complete system or application considering relevant professional standards, safety, and sustainability. Modeling, simulation, and manufacturing (CAM). Cost evaluation. A design project is assigned to an individual student or a group of students. Students prepare a report and present their design project to a panel of instructors at the end of the semester.						
Prerequisites	Consent of the instructor						
Reading List	Will be assigned related to the research topics that are given						
Objectives	• To organize a research study						
	To propose a framework for an academic studyTo complete and defend a project work						
Course Outcomes	In this course you will be able to: CO1 Categorize the available information related to your area of interest CO2 Investigate the literature CO3 Choose relevant references from the literature CO4 Reproduce the analytical or computational work in a selected paper CO5 Distinguish novelty of a study CO6 Prepare a design project or to write a paper						

Contribution to Program Outcomes*

	P01	PO2	PO3	P04	P05	P06	P07	P08	P09	P010	P011
CO1	5	2	4	3	2	3	3	5	1	5	5
CO2	5	2	4	3	5	4	3	4	5	5	5
CO3	5	2	4	4	4	5	3	4	4	5	5
CO4	5	5	5	4	2	5	4	5	2	5	5
CO5	5	5	5	4	5	5	5	5	4	5	5
C06	5	5	5	4	5	5	5	5	3	5	5

* Contribution Level | 0: None | 1: Very Low | 2: Low | 3: Medium | 4: High | 5: Very High

Special Conditions	• Students work in groups.						
Cheating & Plagiarism	 Copying or letting someone to copy your work on exams, assignments, or reports is cheating. Cutting and pasting text, figures and tables from the web sources or any other electronic source is plagiarism. The consequence of academic dishonesty is to receive a grade of FF for the course. 						
Evaluation	Midterm presentation to supervisor Final report to supervisor <u>Final presentation to examining committee</u> Total	40% 30% <u>30%</u> 100%					

Prepared by Akın Oktav on August 24, 2022