Alanya Alaaddin Keykubat University | Rafet Kayış Faculty of Engineering Mechanical Engineering Department 2021-2022 Fall Semester SYLLABUS

Code/Name	MEC 101 / Introduction to Machanical Engineering						
Type	Name MEC 101 / Introduction to Mechanical Engineering Required						
Credit/ECTS							
Hour per Week	·						
Level/Year Undergraduate/1							
Semester	· · · · · · · · · · · · · · · · · · ·						
Classroom	D 102						
Content	Overview of the major fields of mechanical engineering including design and manufacturing, theory of machines, solid mechanics, fluid mechanics, thermal sciences, and energy systems. Project planning and implementation. Introductory concepts of engineering design process and statistical methods. Oral and written presentation and professional writing. General and professional ethics. Invited speakers from the graduates and industry.						
Prerequisites							
Textbooks	Primary J Wickert, K Lewis, <i>An Introduction to Mechanical Engineering</i> , 4 th edition, Cengage Learning, 2020. Supplementary						
Objectives	To familiarize first year mechanical engineering students with the major						
ŕ	To provide pillars of mechanical engineering and main applications						
	 To raise awareness in engineering design, analysis, and professional ethics 						
Course Outcome	In this course you will be able to: CO1 Outline the scope and applications of mechanical engineering CO2 Classify fundamental areas and main courses of mechanical engineering CO3 Organize project planning and implementation CO4 Demonstrate engineering design process and analysis methods CO5 Use oral and written presentation effectively CO6 Practice professional responsibilities and ethics.						
Weekly Schedul	e of Topics						
W Topic							
1 Why mech	Why mechanical engineering?						
2 Introducti	Introduction to design and manufacturing						
3 Introducti	Introduction to theory of machines						
4 Introducti	Introduction to solid mechanics						
5 Introducti	Introduction to energy						
6 Introducti	Introduction to fluid mechanics						
7 Project pla	Project planning and implementation						
	Engineering design process						
	Statistical methods						
	Oral and written presentation						
	Professional responsibility and ethics						
	Invited speaker from the graduates or industry						

Invited speaker from the graduates or industry 13

14 Invited speaker from the graduates or industry

Professional Contribution

Understand the field of mechanical engineering and its applications

Contribution to Program Outcomes*

	P01	P02	P03	P04	P05	P06	P07	P08	P09	PO10	P011
CO1	2	2	1	2	0	0	0	2	1	0	0
CO2	1	1	0	1	0	0	0	0	1	1	0
CO3	0	3	0	1	2	5	2	0	2	2	4
CO4	4	5	2	5	0	0	0	0	0	4	0
CO5	0	0	0	0	0	0	5	0	0	0	0
C06	0	0	0	0	5	0	0	0	0	0	0

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

Special Conditions • Students work in groups for project and presentation

Special Conditions	 Students work in groups for project and presentations. 						
	The consequence of violation of the attendance rule is to receive a grade of NA.						
Requirements							
Evaluation	Midterm Exam	40%					
	Quizzes	10%					
	<u>Final Exam</u>	50%					
	Total	100%					
Rubric							
Course Policy	1. You must attend at least 70% of the sessions including add-drop period.						
	2. Be in the class on time.						
	3. English should always be used to communicate with one another.						
	4. Mobile phone should be switched off and put away during the class.						
	5. No talking to classmates during class no matter what the subject is.						
Cheating &	Copying or letting someone to copy your work on exams, assignments, or reports is						
Plagiarism	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 F for the course. 						

Instructor

Name/Surname	Mehmet Kanoglu	Email	mehmet.kanoglu@alanya.edu.tr
Room	121	Office Hours	Monday: 12:00 – 13:00
			Tuesday: 12:00 - 13:00

Prepared by Mehmet Kanoğlu on Sep. 7, 2021