2022-2023 FALL SEMESTER

ENG 499 MULTI DISCIPLINARY PROJECT LIST

Şube No (Gro up No)	Akademisyen (Lecturer)	Proje Adı (Project Name)	Projeyi Alabilecek Öğrencilerin Bölümleri (Departments of Students Who Will Register for the Project)
1	Prof. Dr. ÖMER EYERCİOĞLU	Design and construction of a roll-to-plate 3D printer	Electrical and Electronics Eng.
		8 F F	Mech. Eng.
	Prof. Dr. NİHAT YILDIRIM	Design and contruction of a prototype solar air heater	Electrical and Electronics Eng.
2		with measurement and control of input and output	Mech. Eng.
		parameters	Food Eng.
	Prof. Dr. NİHAT	Design and contruction of a prototype vacuum drying unit with measurement and control of input and output	Electrical and Electronics Eng.
3	YILDIRIM		Mech. Eng.
		parameters	Food Eng.
4	Prof. Dr. NİHAT	Design and contruction of a prototype fluid level indicator	Electrical and Electronics Eng.
	YILDIRIM	for stationary tanks	Mech. Eng.
	Prof. Dr. MELDA	Industrial Applications of Supercritical Fluids (Focusing	Food Eng.
5	ÇARPINLIOĞLU	on Thermodynamic Analysis and Property Calculation Methodology)	Textile Eng.
		Design and contruction of a prototype solar air heater	Electrical and Electronics Eng.
6	Prof. Dr. A. İHSAN KUTLAR	with measurement and control of input and output parameters	Mech. Eng.
			Food Eng.
		Design and contruction of a prototype vacuum drying unit with measurement and control of input and output parameters	Electrical and Electronics Eng.
7	Prof. Dr. A. İHSAN KUTLAR		Mech. Eng.
			Food Eng.
8	Prof. Dr. A. İHSAN KUTLAR	Design and contruction of a prototype fluid level indicator	Electrical and Electronics Eng.
0		for stationary tanks	Mech. Eng.
0	Dr. Öğr. Üyesi N.	Application of low impact behavior analysis to	Mech. Eng.
9	FURKAN DOĞAN	automobile bumper model with ANSYS finite element program&geometric optimization.	Met. and Mat. Eng.
10	Dr. Öğr. Üyesi N. FURKAN DOĞAN	Climatic chamber design for the drop-weight impact test device	Mech. Eng.
10			Electrical and Electronics Eng.
	Doç. Dr. ÖMER		Mech. Eng.
11	YAVUZ BOZKURT	Octoprint systems in 3Dprinters	Electrical and Electronics Eng.
12	Doç. Dr. ÖMER YAVUZ BOZKURT	Desiston filoment production system for 2D printers	Mech. Eng.
12		Desktop filament production system for 3D printers	Electrical and Electronics Eng.
13	Prof. Dr. EMRAH ÖZAHİ	A System Restructuring Study by Using Lean Manufacturing Principles to Increase Production Efficiency by Reducing Waste Energy.	Mech. Eng.
			Ind. Eng.
	Doç. Dr. ALİ KILIÇ	Conceptual and Architectural Design of Autonomous Warehouse Robots	Mech. Eng.
14			Electrical and Electronics Eng.
			Ind. Eng.
15	Dr. Öğr. Üyesi M.	Manufacturing and Control of a 2 DOF Press Mechanism	Mech. Eng.

	ERKAN KÜTÜK	Prototype	Electrical and Electronics Eng.
16			Mech. Eng.
	Prof. Dr. AHMET ERKLİĞ	3 boyutlu yazıcı ile halat örgü makinesi yapımı.	Electrical and Electronics Eng.
	EKKLIG		Textile Eng.
	Dr. Öğr. Üyesi SADIK OLGUNER	Static structural and harmonic response analyses of a	Mech. Eng.
17		highway bridge using ANSYS Workbench	Civil Eng.
	Dr. Öğr. Üyesi SADIK OLGUNER	Mass/Volume optimisation of a planetary gearbox for wind turbine applications	Mech. Eng.
18			Ind. Eng.
	Doç. Dr. ABDULLAH AKPOLAT	An investigation about production and usage areas of	Mech. Eng.
19		Polytetrafluoroethylene (PTFE).	Met. and Mat. Eng.
	Prof. Dr.		Mech. Eng.
20	SADETTİN KAPUCU	Design a tremor reduction device	Electrical and Electronics Eng.
21	Prof. Dr. Ergun	Design of NID anastrometra	Food Eng.
21	Erçelebi	Design of NIR spectrometre	Mech. Eng.
22	Prof. Dr. Ergun	Design of an acoustic system for determination of iron	Civil Eng.
22	Erçelebi	density under plaster	Mech. Eng.
23	Prof. Dr. Gölge	Designing a Wireles Data Transfer System for	Electrical and Electronics Eng.
23	Ögücü Yetkin	Underwater Use	Mech. Eng.
24	Prof. Dr. Gölge	Sun Tracking Solar Panel	Electrical and Electronics Eng.
24	Ögücü Yetkin		Mech. Eng.
25	Prof. Dr. Arif	Thrown item catching arm	Electrical and Electronics Eng.
	NACAROĞLU		Mech. Eng.
26	Prof. Dr. Savaş UÇKUN	Design and construction of a project which uses electromagnetic wave for transformation of data.	Electrical and Electronics Eng.
			Mech. Eng.
27	Prof. Dr. Uğur Cem Hasar	Structural Health Monitoring Using Non-Destructive Microwave Techniques	Civil Eng.
			Electrical and Electronics Eng.
28	Prof. Dr. Arif	Heat follower	Electrical and Electronics Eng.
	NACAROĞLU		Mech. Eng.
29	Prof. Dr. Sema Kayhan	Design and Implementation of Robotic Arm	Electrical and Electronics Eng.
			Mech. Eng.
30	Prof. Dr. Sema Kayhan Doç. Dr. Taner	Sales Forecasting using Machine Learning Algorithm Machine Learning Based Earth mineral identification using Hyperspectral Images for Unmanned Aerial	Electrical and Electronics Eng.
			Ind. Eng.
31			Electrical and Electronics Eng.
	Ince	Vehicles (UAV)	Mech. Eng.
32	Doç. Dr. A. Mete	Design and Implementation of an Electric Crane	Electrical and Electronics Eng.
	VURAL		Eng. Physics
33	Dr. Öğr. Üyesi Serkan ÖZBAY	Investigating the conductivity of stretchable fabrics for different bending levels	Electrical and Electronics Eng.
			Textile Eng.
34	Dr. Öğr. Üyesi Serkan ÖZBAY Prof. Dr. Nuran Doğru	Design of a defect detection system using neural network	Electrical and Electronics Eng.
			Mech. Eng.
35		Laser cutter for different applications	Electrical and Electronics Eng. Mech. Eng.
36	Dr. Öğr. Üyesi	Design of solid granule pumping machine	Electrical and Electronics Eng.
50	21. 051. 09051	2005h of bond francic pumping indefinite	Electrical and Electronics Eng.

	Musa Bute		Mech. Eng.
37	Dr. Öğr. Üyesi Musa Bute	~	Electrical and Electronics Eng.
		Control of solid granule pumping machine	Mech. Eng.
38	Doç. Dr.Tolgay KARA	Glove-controlled Robotic Hand	Electrical and Electronics Eng.
		Giove-controlled Robotic Hand	Mech. Eng.
39	Dr. Öğr. Üyesi Mehmet DEMİR	Design and realization of an unmanned autonomous	Electrical and Electronics Eng.
37		underwater system	Mech. Eng.
40	Dr. Öğr. Üyesi	Design and implementation of Computer Vision based 3D	Electrical and Electronics Eng.
	Seydi KAÇMAZ	printed Robotic Arm controlled by interactive GUI	Mech. Eng.
41	Dr. Öğr. Üyesi Nurdal Watsuji	Pick, sort and place robot	Electrical and Electronics Eng.
		· , · · · · · · · · · · · · · · · · · ·	Mech. Eng.
			Electrical and Electronics Eng.
			Mech. Eng.
42	Dr. Öğr. Üyesi Ali	Design, analysis and construction of a prototype for	Civil Eng.
12	Osman ARSLAN	educational technology	Food Eng.
			Ind. Eng.
			Eng. Physics
43	Dr. Öğr. Üyesi	Automated and Automatic Targeting System	Electrical and Electronics Eng.
43	Mahmut AYKAÇ	Automated and Automatic Targeting System	Mech. Eng.
			Food. Eng
44	Prof. Dr. Sevim KAYA	Determination of Barrier, Mechanical and Stuctural Properties of Some Edible Films	Mech. Eng.
			Opt. and Acou. Eng.
45	Prof. Dr. Ahmet KAYA	Design of Pistahio Paste Grinder	Food Eng.
45			Mech. Eng.
	Prof. Dr. Çiğdem AYKAÇ	Investigation of microwave usage habits: creating a web- based survey program and analyzing the results	Food. Eng
46			Electrical and Electronics Eng.
			Ind. Eng.
	Prof. Dr. Şenol İBANOĞLU	Online ozone monitoring during food processing	Food Eng.
47			Opt. and Acou. Eng.
			Electrical and Electronics Eng.
	Prof. Dr. Esra İBANOĞLU	Particle Size Determinatination by Light Scattering Method	Food Eng.
48			Opt. and Acou. Eng.
			Ind. Eng.
49	Prof. Dr. Fahrettin	Solar drying of fruits and vegetables	Food. Eng
47	GÖĞÜŞ		Mech. Eng.
	Prof. Dr. Medeni MASKAN	Use of ultrasound in detection of maturity level of fruits	Food Eng.
50		and vegetables.	Eng. Physics
		-	Opt. and Acou. Eng.
51	Prof. Dr. Medeni MASKAN	Cost estimation of "minimal" and "coventional refining" of vegetable oils.	Food Eng.
			Ind. Eng.
	Prof. Dr. Mustafa BAYRAM	Design of Food Plant in Mars	Food Eng.
52			Met. and Mat. Eng.
			Civil Eng.
53	Doç. Dr. Derya KOÇAK YANIK	Production of value added materials from food waste.	Food. Eng
55			Met. and Mat. Eng.

54	Doç. Dr. Nihat Atmaca		Civil Eng.
		Design of Structural System, Mechanical Installation and Electrical System of Reinforced Concrete Buildings	Mech. Eng.
			Electrical and Electronics Eng.
55	Prof. Dr. Aytaç Güven		Civil Eng.
		Design of Solar Energy Project for Roof of Buildings	Mech. Eng.
			Electrical and Electronics Eng.
	Prof. Dr. Abdulkadir Çevik	Artificial Intelligence Applications in Engineering	Civil Eng.
56			Mech. Eng.
50			Electrical and Electronics Eng.
			Ind. Eng.
57	Prof. Dr. Esra	Design of a transmission towar (nulon)	Civil Eng.
57	Mete Güneyisi	Design of a transmission tower (pylon)	Electrical and Electronics Eng.
		Design of a reinforced concrete factory by the	Civil Eng.
58	Doç. Dr. Mehmet Eren Gülşan	consideration of both energy savings and vibration	Mech. Eng.
	Lion Juişan	resistance	Electrical and Electronics Eng.
50	Prof. Dr. Mehmet	Design and optimization of a hydrokinetic turbine by	Civil Eng.
59	İshak Yüce	using CFD methods	Mech. Eng.
			Civil Eng.
<i>c</i> 0	Prof. Dr. Mustafa	Design of the future house (Energy efficient, Water efficient, Social responsibility and innovative design)	Mech. Eng.
60	Özakça		Electrical and Electronics Eng.
			Ind. Eng.
	Prof. Dr. Hamza Güllü		Civil Eng.
61		Post-Eartquake Damage Evaluation of Buildings	Mech. Eng.
			Electrical and Electronics Eng.
	Doç. Dr. Talha	Design of an Industrial Steel Building with Sprinkler Fire Extinguishing Sytem	Civil Eng.
62	Ekmekyapar		Mech. Eng.
			Civil Eng.
	Dr. Öğr. Üyesi	Design of ecological and sustaniable buildings	Mech. Eng.
63	Esra Eylem Karataş		Electrical and Electronics Eng.
	Lurawy		Ind. Eng.
<i>C</i> A	Prof. Dr. Mustafa	Bridge pier cross section design for reducing local scour	Civil Eng.
64	Günal	for flood conditions.	Mech. Eng.
	Öğr. Üyesi Dr.	Thermal, sound Insulation and waterproofing of a	Civil Eng.
65	Ayşe Yeter GÜNAL	multistorey building and economical analysis.	Mech. Eng.
	Doç. Dr. Mehmet		Civil Eng.
66	Tolga GÖĞÜŞ	Design of extensometer for tensile testing of metals	
	Prof. Dr. Ali Fırat		Mech. Eng.
67	ÇABALAR	Sustainable materials for road pavement designs	Civil Eng.
	ŞIBILAR		Met. and Mat. Eng.
	Doç. Dr. Nildem Tavsi		Civil Eng.
		Optimization Techniques in Engineering	Mech. Eng.
68		optimization reeninques in Engineering	Electrical and Electronics E.
68	Tayşi	optimization reeninques in Engineering	Electrical and Electronics Eng.
68			Electrical and Electronics Eng. Ind. Eng. Opt. and Acou. Eng.

			Electrical and Electronics Eng.
70	Prof. Dr. Bülent GÖNÜL		Eng. Physics
		A search on viability of fusion reactors	Mech. Eng.
			Electrical and Electronics Eng.
	Doç. Dr. R.Güler YILDIRIM		Opt. and Acou. Eng.
			Food Eng.
			Electrical and Electronics Eng.
		Engineering Applications of Excel	Mech. Eng.
71			Civil Eng.
			Ind. Eng.
			Textile Eng.
			Met. and Mat. Eng.
			Textile Eng.Met. and Mat. Eng.Eng. PhysicsElectrical and Electronics EngFood Eng.Eng. PhysicsMech. Eng.Electrical and Electronics EngEng. PhysicsElectrical and Electronics EngEng. PhysicsElectrical and Electronics EngOpt. and Acou. Eng.Eng. PhysicsMech. Eng.Eng. PhysicsEng. PhysicsEng. PhysicsEng. PhysicsEng. PhysicsElectrical and Electronics EngEng. PhysicsMech. Eng.Electrical and Electronics EngEng. Physics
72	Prof. Dr. Hayriye TÜTÜNCÜLER	Investigation of dye sensitized solar celles	Electrical and Electronics Eng.
	TOTORCOLER		Food Eng.
73	Prof. Dr. Ömer F. Bakkaloğlu	Design of solar cell	Mech. Eng.
	Dakkalogiu		Electrical and Electronics Eng.
74	Assist. Prof. Dr. Mehmet KOÇAK	Wireless Transmission of Electricity	Electrical and Electronics Eng.
			Opt. and Acou. Eng.
	Draf Dr. Olaar	Analiantiana of Marto Carlo Mothed (MCM) in Decotor	Eng. Physics
75	Prof. Dr. Okan Özer	Applications of Monte Carlo Method (MCM) in Reactor Safety&Security Systems	Mech. Eng.
			Electrical and Electronics Eng.
	Drof Dr Doging	An investigation of hand gap tuning in coming onductors	Eng. Physics
76	Prof. Dr. Beşire GÖNÜL	An investigation of band gap tuning in seminconductors for photonic devices	Electrical and Electronics Eng.
			Met. and Mat. Eng.
	Doç. Dr. Mustafa YILMAZ	Water harvesting from moisture in the air by 3D mesh nets.	Food Eng.
77			Mech. Eng.
			Opt. and Acou. Eng.
	Prof. Dr. Metin Bedir	Investigation of the corrosion behaviour of the metallic materials by different methods	Eng. Physics
78			Mech. Eng.
			Met. and Mat. Eng.
			Opt. and Acou. Eng.
79	Prof. Dr. A. Necmeddin	Investigation of luminaire and road properties on uniform lighting in road examples.	Eng. Physics
13	YAZICI		Electrical and Electronics Eng.
			Civil Eng.
	Prof. Dr. Ayda	Glove-controlled robotic arm.	Eng. Physics
80	Beddall		Electrical and Electronics Eng.
			Mech. Eng.
	Prof. Dr. Ahmet BİNGÜL	Bidirectional optical communication	Opt. and Acou. Eng.
81			Eng. Physics
			Electrical and Electronics Eng.
82	Prof. Dr. Ramazan	Investigation of enzyme battery	Eng. Physics

	KOÇ		Food Eng.
83	Prof. Dr. Hüseyin TOKTAMIŞ		Eng. Physics
		The applications of wideband gap S/C in industry	Electrical and Electronics Eng.
			Ind. Eng.
	Prof. Dr. Zihni Öztürk		Eng. Physics
<u> </u>			Mech. Eng.
84		Investigation of the thorium resources in Turkey	Met. and Mat. Eng.
			Electrical and Electronics Eng.
	Dr. Öğr. Üyesi Serap Çelik	Efficiency calculations of half-cut solar panels under shaded conditions	Eng. Physics
85			Opt. and Acou. Eng.
		shaded conditions	Electrical and Electronics Eng.
			Eng. Physics
86	Prof. Dr. Eser	Design and construction of absorptive acoustic panels	Opt. and Acou. Eng.
80	OLĞAR	Design and construction of absorptive acoustic panels	Civil Eng.
			Mech. Eng.
	Prof. Dr. Mehmet	Design of weft insertion mechanism and shedding	Textile Eng.
87	TOPALBEKİROĞ	mechanism for hand-made woven carpet production/ Developing software to control multiple stepper motors	Electrical and Electronics Eng.
	LU	for textile machines	Mech. Eng.
88	Doç. Dr. H.	Design and production of conductive knitted fabric	Textile Eng.
00	İbrahim ÇELİK	Design and production of conductive kinded fabric	Electrical and Electronics Eng.
89	Doç. Dr. H. Kübra	Investigation of conductive yarn production	Textile Eng.
07	KAYNAK		Met. and Mat. Eng.
	Doç. Dr. Züleyha DEĞİRMENCİ	Designing of thermal jacket/Designing of 3D textiles	Textile Eng.
90			Electrical and Electronics Eng.
			Mech. Eng.
	Dr. Öğretim Üye M. Erdem İNCE	Design and Production of Weft Knitted Fabric Reinforced Polymer Matrix Composite	Textile Eng.
91			Met. and Mat. Eng.
			Mech. Eng.
92	Prof. Dr. Serap U.SEÇKİNER	Work load balancing in scheduling problems	Ind. Eng.
			Mech. Eng.
	Doç. Dr. Zeynep D. U. DURMUŞOĞLU	Simulation of different queing systems in a job shop manufacturing environment where there are parellel machines.	Ind. Eng.
93			Food Eng.
			Mech. Eng.
94	Doç. Dr. Alptekin	A system restructuring study by using lean manufacturing	Ind. Eng.
	DURMUŞOĞLU	principles to increase manufacturing efficiency	Mech. Eng.
95	Doç. Dr. Süleyman	Straight Assembly Line Balancing Problem	Ind. Eng.
	METE		Mech. Eng.
96	Doç. Dr. Eren	Vehicle Routing Problem with Drones for Last Mile Delivery	Ind. Eng.
	ÖZCEYLAN		Electrical and Electronics Eng.
_	Öğr. Gör. Dr. Azmi Mert ÇELİK	Synthesis of flame retardant zinc borate powders using thermochemical methods	Met. and Mat. Eng.
97			Ind. Eng.
			Textile Eng.
98	Dr. Öğr. Üyesi		Met. and Mat. Eng.
70	Abdulaziz KAYA		Food Eng.

			Ind. Eng.
99	Dr. Öğr. Üyesi Mustafa Guven GOK	Design, production and characterization of polymeric 3d lattice structures	Met. and Mat. Eng.
			Mech. Eng.
,,,			Ind. Eng.
			Eng. Physics
	Halli Ibrahim	Glass fiber reinforced polyester composite production via vacuum infusion method	Met. and Mat. Eng.
100			Ind. Eng.
			Textile Eng.
	Doç. Dr. Mikail ASLAN Nano clay reinforc	Nano clay reinforced aluminum composite	Met. and Mat. Eng.
101			Mech. Eng.
			Ind. Eng.
	Doç. Dr. Abdulcabbar YAVUZ	Fabrication of flexible electrode for water purification	Met. and Mat. Eng.
102			Food Eng.
			Textile Eng.
103	Doç. Dr. Derya K. YAVUZ	Design and cost analysis of a dental restorative production plant based on QCD principles.	Met. and Mat. Eng.
105			Ind. Eng.