2023-2024 SPRING SEMESTER ENG 499 MULTI DISCIPLINARY PROJECT LIST

Şube No (Group No)	Akademisyen (Lecturer)	Proje Adı (Project Name)	Proje Bölümü (Project Department)	Projeyi Alabilecek Öğrencilerin Bölümleri (Departments of students Who will register for the project)	
_				Mech. Eng.	
3	Prof. Dr.ÖMER EYERCİOĞLU	DESIGN AND CONSTRUCTION OF A VISCOMETER	Mech. Eng.	Electrical and Electronics Eng.	
		Savonius wind turbine (SRT) design and prototype:		Mech. Eng.	
4	Dr.Öğr.Üyesi N. FURKAN DOĞAN	This study consists of the design, analysis, and prototype stages of SRTs: vertical-axis wind turbines. Solid modeling software such as SolidWorks will be used in the design phase	Mech. Eng.	Engineering Physics	
		A System Restructuring Study by Using Lean Manufacturing Principles to Increase		Mech. Eng.	
5	Prof. Dr. EMRAH ÖZAHİ	Production Efficiency by Reducing Waste Energy.	Mech. Eng.	Industrial Eng.	
	Dr.Öğr.Üyesi M. ERKAN KÜTÜK	Design and Implementation of a 2 DOF Planar Parallel Manipulator	Mech Eng	Mech. Eng.	
6				Electrical and Electronics Eng.	
			Mech. Eng.	Mech. Eng.	
7	Dr.Öğr.Üyesi SADIK OLGUNER	Multiobjective optimization of a gearbox for power generation applications		Industrial Eng.	
	,	Defect detection on material surface with image processing	Mech. Eng.	Mech. Eng.	
8				Electrical and Electronics Eng.	
		Users of wearable shaking reduction devices experience less trembling by internally		Mech. Eng.	
11	Prof.Dr. SADETTİN KAPUCU	creating forces that cancel out or lessen the amount of trembling they experience. The gadget can be fastened to the leg arm wrist or ankle. The apparatus might	Mech. Eng.	Electrical and Electronics Eng.	
	Doç.Dr. Hüseyin YAĞLI	Off-grid smart green city design considering energy, building and food sustainability	Mech. Eng.	Mech.Eng.	
12				Electrical and Electronics Eng.	
				Civil Eng.	
				Food Eng.	

	Prof.Dr. Nihat YII DIRIM Design and			Mech.Eng.
13	Prof.Dr. A. İhsan KUTLAR		Mech. Eng.	Electrical and Electronics Eng.
				Mech. Eng.
	Prof. Dr. Nihat YII DIRIM			Electrical and Electronics Eng.
14	Prof.Dr. A. İhsan KUTLAR	Development of a defect detection system based on AI coding	Mech. Eng.	Engineering Physics
				Industrial Eng.
				Mech. Eng.
15	DOÇ.DR. FUAT YILMAZ	Design and construction of a Bladeless Vortex Hydro Turbine	Mech. Eng.	Electrical and Electronics Eng.
				Industrial Eng.
	PROF.DR. Ö. YAVUZ BOZKURT	Proje 1 – 3B yazıcı ile Tirçasiz DC elektrik motoru tasarımı ve üretimi Bu proje 3Boyutlu yazıcı kullanarak üretilebilecek bir firçasiz DC elektrik motoru tasarımını ve üretimini içermektedir. Öncelikle proje çıktısı olacak fırçasız DC motor		Mech.Eng.
17			Mech. Eng.	Electrical and Electronics Eng.
	PROF.DR. Ö. YAVUZ BOZKURT	icin gerekli taşayını çalısmaları yanılarak ve hut tasayını 38 yazıcı yardını ile Yoğe 2 – 3 Boyutlu yazıcılarda kullanmak üzere filamentlerin nem almasını önlemek için istuci düzenekli bir filament saklama kutusu tasarımı ve üretimini kapsamaktadır. Bu proje için aranan pavakasır Makine Mükendiğli Flektrik Flektronik Mühendiğli Du proje için aranan pavakasır Makine Mühendiğli Flektrik Flektronik Mühendiğli Flektrik Flektronik Mühendiğli Flektrik Flektronik Mühendiğli Flektrik Flektronik Mühendiğli Flektrik Flektronik Mühendiğli Flektrik Flektronik Mühendiğli Flektrik Flektronik Mühendiğli Flektrik Flektronik Mühendiğli Flektrik Flektronik Mühendiğli Flektrik Flektronik Mühendiğli Flektrik Flektronik Mühendiğli Flektrik Flektronik Mühendiğli Flektrik Flektronik Mühendiğli Flektrik Flektronik Mühendiğli Flektrik Flektrik Flektrik Flektronik Mühendiğli Flektrik Flektronik Mühendiğli Flektrik Flektronik Mühendiğli Flektrik Flektronik Mühendiğli Flektrik Flektronik Mühendiğli Flektrik Flektronik Mühendiğli Flektrik Flektronik Mühendiğli Flektrik Flektronik Mühendiğli Flektrik Flektronik Mühendiğli Flektrik Flektronik Mühendiğli Flektrik Flektronik Mühendiğli Flektrik Flektronik Mühendiğli Flektrik Flektronik Mühendiğli Flektrik Flektronik Mühendiğli Flektrik Flektronik Mühendiğli Flektrik Flektronik Mühendiğli Flektrik Flektronik Mühendiğli Flektrik Flektronik Mühendiğli Flektrik Flektronik Mühendiğli Flektronik Mühendiğli Flektrik Flektronik Mühendiğli Flektrik Flektronik Mühendiğli Flektronik Flektronik Mühendiğli Flektronik Mühendiğl		Mech.Eng.
19			Mech. Eng.	Electrical and Electronics Eng.
				Metallurgical and Materials Eng.
	_	Conceptual and Architectural Design of Autonomous Warehouse Robots	Mech. Eng.	Mech. Eng.
20				Electrical and Electronics Eng.
				Industrial Eng.
				Mech. Eng.
22	PROF.DR. AHMET ERKLİĞ	Production of self-balancing robot	Mech. Eng.	Electrical and Electronics Eng.
				Engineering Physics
		Experimental and numerical investigation of flexural behavior of sandwich composite		Mech. Eng.
23	PROF.DR. AHMET ERKLİĞ	structures	Mech. Eng.	Metallurgical and Materials Eng.

				Mech. Eng.
25	PROF.DR. M. YAŞAR GÜNDOĞDU	CHEMICAL ANALYSIS OF HUMAN BLOOD	Mech. Eng.	Electrical and Electronics Eng.
				Food Eng.
				Mech. Eng.
26	PROF.DR. M. YAŞAR GÜNDOĞDU	ARTERY DEVELOPMENT OF HUMAN IN WORLD	Mech. Eng.	Electrical and Electronics Eng.
			-	Food Eng.
				Mech. Eng.
28	DOÇ.DR. N. KARA TOĞUN	Internet Based Smart Irrigation and Remote Monitoring System	Mech. Eng.	Electrical and Electronics Eng.
				Mech. Eng.
29	OC, DR. N. KARA TOĞUN Generation of electricity from water using rack and pinion mechanism	Mech. Eng.	Electrical and Electronics Eng.	
30	Dr.Öğr.Üyesi Serkan ÖZBAY	Investigating the conductivity of stretchable fabrics for different bending levels	Electrical and Electronics	Electrical and Electronics Eng.
30	DI. Ogi. Oyesi Serkali OZBAT	investigating the conductivity of stretchable labrics for different bending levels	Eng.	Textile Engineering
31	Doç.Dr. Taner İnce	Hand Motion Controlled Robotic Vehicle	Electrical and Electronics Eng.	Electrical and Electronics Eng.
31	Doç.Dr. raner ince	Traile Wotion Controlled Robotic Venicle		Mech. Eng.
32	Dr. Öğr. Üyesi SEYDİ KAÇMAZ	Smart Food Storage and Monitoring System	Electrical and Electronics	Electrical and Electronics Eng.
32	DI. Oği. Oyesi SETDI KAÇINAZ	Smart rood storage and worktoring system	Eng.	Food Eng.
33	Prof.Dr. Nuran Doğru Remote controlled smart trolley	Remote controlled smart trailing		Electrical and Electronics Eng.
33		nemote controlled smart drolley	Electrical and Electronics	Mech. Eng.
34			Electrical and Electronics	Electrical and Electronics Eng.
54	Doç.Dr. Tolgay Kara	Sensor-free Mobile Robot with Visual Feedback	Eng.	Mech. Eng.
35	Dr. Öğr. Üyesi Musa Bute	Design of solid granule pumping machine	Electrical and Electronics	Electrical and Electronics Eng.
33			Eng.	Mech. Eng.

	T		Plantint 177	Classical and Classical Co.
36	Prof.Dr.Ahmet Mete VURAL	Electromagnet crane	Electrical and Electronics Eng.	Electrical and Electronics Eng. Mech. Eng.
37	Prof.Dr.Ahmet Mete VURAL	Wearable Gas Sensor	Electrical and Electronics Eng.	Electrical and Electronics Eng. Food Eng.
38	Dr.Öğr.Üyesi Mahmut AYKAÇ	Undeceivable Seat Belt	Electrical and Electronics Eng.	Electrical and Electronics Eng. Mech. Eng.
39	Prof. Dr. Sema Kayhan	Development of Student Attendance System Based on Fingerprint Biometrics	Electrical and Electronics Eng.	Electrical and Electronics Eng. Industrial Eng.
40	Prof. Dr. Ergun ERÇELEBİ	Designing a student attendance tracking system based on artificial intelligence and facial recognition.	Electrical and Electronics Eng.	Electrical and Electronics Eng. Industrial Eng. Food Eng.
41	Prof. Dr. Ergun ERÇELEBİ	Designing a granular dried legume or dried fruit sorting device based on artificial intelligence and image processing.	Electrical and Electronics Eng.	Electrical and Electronics Eng. Industrial Eng. Food Eng.
42	Prof. Dr. Ergun ERÇELEBİ	Design of a machine that detects defects in textile fabric.	Electrical and Electronics Eng.	Electrical and Electronics Eng. Textile Engineering Mech. Eng.
43	Prof. Dr. Medeni MASKAN	Use of ultrasound in detection of maturity level of fruits	Food Eng.	Industrial Eng. Food Eng. Optic and Acoustical Eng. Engineering Physics
44	Prof.Dr. Sibel FADILOĞLU	Design of electrophoresis instrumental system for protein purification	Food Eng.	Electrical and Electronics Eng. Food Eng. Mech. Eng.
45	Prof.Dr. Mustafa BAYRAM	Food Consumption Trends	Food Eng.	Electrical and Electronics Eng. FOOD Eng., INDUSTRIAL Eng., Computer Eng., Mechanical Eng. Software Eng.,
46	Prof. Dr. Çiğdem AYKAÇ	Research on alternative polymers for food packaging	Food Eng.	Fronomics Social Sciences Departments Food Eng. Metallurgical and Materials Eng.
48	Prof. Dr. Şenol İBANOĞLU	Design of amachinary to measure omega 3 and omega 6 levels in vegetable oils using spectroscopy	Food Eng.	Food Eng. Engineering Physics
49	Prof. Dr. Hüseyin BOZKURT	Novel Mathematic modelling in Engineering	Food Eng.	Optic and Acoustical Eng. Food Eng. Industrial Eng.
50	Prof. Dr. Emine ERÇELEBİ	Tarımsal/endüstriyel atıkların değerlendirilmesi	Food Eng.	Electrical and Electronics Eng. Food Eng.
51	Prof.Dr. A. Coşkun DALGIÇ	Process simulation in food industry	Food Eng.	Industrial Eng. Food Eng. Industrial Eng.
52	Prof. Dr. Esra İBANOĞLU	Exploring Polymorphic structures in chocolate on the production line	Food Eng.	Mech. Eng. Food Eng.
	Prof.Dr. Ahmet KAYA	Design of enzyme/oxygen indicator.	Food Eng.	Optic and Acoustical Eng. Food Eng. Engineering Physics
54	Prof.Dr. Sevim KAYA Changes in properties of milk during cheese production		Food Eng.	Optic and Acoustical Eng. Food Eng.
55	Dr. Öğr. Üyesi Hasene KESKİN ÇAVDAR	Design of automated titration system for determination of enzyme activity	Food Eng.	Optic and Acoustical Eng. Food Eng. Mech. Eng.
56	Dr. Öğr. Üyesi Fatih BALCI	ih BALCI Elektrospinning ile Gıda Atıklarından Biyoplastik Lif Üretimi ve Tekstil Uygulamaları		Electrical and Electronics Eng. Food Eng.
59	Prof.Dr.Ömer F. Bakkaloğlu	Design of solar cell	Engineering Physics	Textile Engineering Engineering Physics Mech. Eng. Electrical and Electronics Eng.
60	Assist. Prof. Dr. Mehmet KOÇAK	Prof. Dr. Mehmet KOÇAK Wireless Transmission of Electricity Engineering Physics		Engineering Physics Electrical and Electronics Eng. Optic and Acoustical Eng.
61	Dr. Öğr. Üyesi Serap Çelik	r. Öğr. Üyesi Serap Çelik Efficiency calculations of half-cut solar panels under shaded conditions		Engineering Physics Optic and Acoustical Eng. Electrical and Electronics Eng.
62	Prof. Dr. Okan Özer	Applications of Monte Carlo Method (MCM) in Reactor Safety&Security Systems	Engineering Physics	Engineering Physics
63	Prof. Dr. Okan Özer	Thermodynamic simulation of performance of Otto Cycle with Heat Transfer and	Engineering Physics	Industrial Eng. Engineering Physics
64	Prof. Dr. Okan Özer	Variable Specific Heats of Working Fluid Calculation of Decay Heat Power in a PWR type Reactor - Akkuyu/Mersin example	Engineering Physics	Mech. Eng. Engineering Physics
	Prof. Dr. Beşire GÖNÜL	An investigition of band gap tuning in seminconductors for photonic devices	Engineering Physics	Electrical and Electronics Eng. Engineering Physics Optic and Acoustical Eng.
66	Prof.Dr.Ahmet BİNGÜL	Bidirectional optical communication	Engineering Physics	Metallurgical and Materials Eng. Engineering Physics Optic and Acoustical Eng. Mech. Eng.
67	Prof.Dr.Eser OLĞAR	Prof.Dr.Eser OLĜAR Design and construction of absorptive acoustic panels Engineering Physics		Electrical and Electronics Eng. Engineering Physics Optic and Acoustical Eng. Civil eng. Mech. Eng.
68	Prof.Dr.A.Necmeddin YAZICI	Investigation of luminaire and road properties on uniform lighting in road examples.	Engineering Physics	Architecture Engineering Physics Optic and Acoustical Eng.
71	Prof.Dr.Hayriye TÜTÜNCÜLER	Investigation of dye sensitized solar celles	Engineering Physics	Electrical and Electronics Eng. Engineering Physics Electrical and Electronics Eng.
72	Prof.Dr.Ayda BEDALL	Prototype automatic glass-plastic bottle sorter for a recycling plant. Engineering Physics		Food Eng. Engineering Physics Electrical and Electronics Eng
73	Doç.Dr.Mustafa YILMAZ	Water harvesting from moisture in the air by 3D mesh nets	Engineering Physics	Electrical and Electronics Eng. Engineering Physics Optic and Acoustical Eng.
	Water harvesting from moisture in the air by 3D mesh nets. Paper based aluminum ion battery design		Engineering Physics Engineering Physics	Optic and Acoustical Eng. Mech. Eng. Engineering Physics Optic and Acoustical Eng. Industrial Eng. Textile eng. Mech. Eng. Electrical and Electronics Eng. Food Eng. Chemistry department
	Prof. Dr. Nihat Atmaca Earthquake design of different structures by ETABS. Civil Eng.		Civil eng. Mech. Eng.	
75	FIOI. DI. NIIIat Atiliata			Electrical and Electronics Eng.
	Doç. Dr. Mehmet Eren Gülşan	Design of an Industrial Building Including Solar Energy Panels.	Civil Eng.	Electrical and Electronics Eng. Civil eng. Mech. Eng.

1	ĺ			Electrical and Electronics Eng.
80	Prof.Dr. Mustafa Özakça	Design of innovative resilient infrastructure for campus (transportation,	Civil Eng.	Civil eng.
		heating/cooling, clean/waste gater system, energy/electricity, etc.The student group	CIVII EIIg.	All Departments
81	Prof. Dr. Hamza Güllü	Post-Eartquake Damage Asessment of Buldings .	Civil Eng.	Civil eng.
01	TTOI. DI. Hamza Guila	1 Ost-Eartquake Daniage Asessment of Buluings .	CIVII LIIG.	Mech. Eng.
82	Prof. Dr. Talha Ekmekyapar	Artificial Intelligence in (Civil Engineering)	Civil Eng.	Civil eng.
Ü.	Tron. Br. Tama Extrickyapar	The direct meangement (citi Engineering)	CIVII ENG.	Mech. Eng.
				Civil eng.
83	Dr.Öğr.Üyesi Esra Eylem Karataş	Design of ecological and sustaniable buildings	Civil Eng.	Mech. Eng.
65	Dr. Ogr. Oyesi Esia Eyleiri karataş	besign of ecological and sustainable buildings	CIVII LIIG.	Electrical and Electronics Eng.
				Architecture
84	Prof.Dr.Mustafa Günal	Investigation of climate change effects on dam reservoir water level in Gaziantep	Civil Eng.	Civil eng.
64	Troi.br.ividstala Gullai	region.	CIVII LIIG.	Mech. Eng.
85	Dr.Öğr. Üyesi Ayşe Yeter GÜNAL	Dam lakes effects on change of climate in Gaziantep region.	Civil Eng.	Civil eng.
85	Dr. Ogr. Oyesi Ayşe Tetel GONAL	bannakes enects on change of climate in Gaziantep region.	CIVII EIIG.	Mech. Eng.
86	Doç. Dr. Mehmet Tolga GÖĞÜŞ	Design of on extensometer for tensile testing of metals	Civil Eng.	Civil eng.
80				Mech. Eng.
87	Prof Dr Ali Fırat ÇABALAR	Developing a new material for bonding.	Civil Eng.	Civil eng.
o,	TTO DI ANTINCE GABABA	beveloping a new material for bonding.		Metallurgical and Materials Eng.
	Prof. Dr. Nildem Tayşi		Civil Eng.	Civil eng.
88		Design and Analysis of Wind Turbines.		Mech. Eng.
00				Electrical and Electronics Eng.
				Industrial Eng.
89	Prof.Dr.Serap U.SEÇKİNER	Work load balancing in scheduling problems	Industrial Eng.	Industrial Eng.
85				Mech. Eng.
90	Doç.Dr. Zeynep D. U. DURMUŞOĞLU	Simulation of different queing systems in a manufacturing or service organization where there are parellel resources.	Industrial Eng.	Industrial Eng.
30				Mech. Eng.
91	Doç.Dr. Alptekin DURMUŞOĞLU	A system restructuring study by using lean manufacturing principles to increase	Industrial Eng.	Industrial Eng.
51		manufacturing efficiency		Mech. Eng.
	Prof. Dr. Mehmet Topalbekiroğlu		Textile Eng.	Textile Eng.
94		Design of shedding mechanism for hand-made woven carpet production		Mech. Eng.
				Electrical and Electronics Eng.
95	Prof. Dr. Cem Güneşoğlu	Web based testing laboratory search portal	Textile Eng.	Textile Eng.
				Electrical and Electronics Eng.
				Computer Eng
96	Prof. Dr. Hatice Kübra Kaynak	Investigation of conductive yarn production	Textile Eng.	Textile Eng.
30				Metallurgical and Materials Eng.
97	Doç. Dr. Halil İbrahim Çelik	Textile Based Piezoelectric Sensor	Textile Eng.	Textile Eng.
,	Doç. Dr. Halli ibi alilili çelik			Electrical and Electronics Eng.

98	Prof. Dr. Züleyha Değirmenci Designing of thermoregulated textile structures	Designing of thermoregulated textile structures	Textile Eng.	Textile Eng.
30		rextile Liig.	Electrical and Electronics Eng.	
100	Doc. Dr. Halil İbrahim Icoglu	Production and characterization of PCL nanofibers via electrospinning	Textile Eng.	Textile Eng.
100	Doc. Dr. Halli Ibrahim Icogia	rrounded and characterization of rechanombers via electrospinning	Textile Ling.	Metallurgical and Materials Eng.
101	Dr. Öğr. Üyesi Hatice İbili	Functional Surfaces	Textile Eng.	Textile Eng.
101	or. ogr. oyes riddee isiii	Tanctional Salitaces	restile Eng.	Food Eng.
			Metallurgical and Materials	Metallurgical and Materials Eng.
103	Doç.Dr.Abdulcabbar YAVUZ	Flexible Electrodes for Energy Storage Devices	Eng.	Engineering Physics
				Textile Eng.
	Doç.Dr.Derya KAPUSUZ YAVUZ Synthesis of oxide nanoparticles		Metallurgical and Materials Eng.	Metallurgical and Materials Eng.
104		Synthesis of oxide nanoparticles		Mech. Eng.
			216	Industrial Eng.
105	Doç.Dr.Mikail ASLAN	Nanoclay reinforced magnesium composites	Metallurgical and Materials Eng.	Metallurgical and Materials Eng.
103				Mech. Eng.
	Doç.Dr.Mustafa Güven GÖK	Failure analysis of 3D printed polimer materials	Metallurgical and Materials Eng.	Metallurgical and Materials Eng.
106				Mech. Eng.
				Industrial Eng.