

2022-2023 SPRING SEMESTER

ENG 499 MULTI DISCIPLINARY PROJECT LIST

Şube No	Akademisyen (Lecturer)	Proje Adı (Project Name)	Projeyi Alabilecek Öğrencilerin Bölümleri (Departments of Students Who Will Register for the Project)
1	Doç. Dr. Nihat Atmaca	Design of Structural System, Mechanical Installation and Electrical System of Reinforced Concrete Buildings	Civil Engineering
			Mechanical Engineering
			Electrical and Electronics Eng
2	Prof. Dr. Abdulkadir Çevik	Artificial Intelligence Applications in Engineering	Civil Engineering
			Mechanical Engineering
			Electrical and Electronics Eng
			Industrial Engineering
3	Prof. Dr. Esra Mete Güneysisi	Design of a transmission tower (pylon)	Civil Engineering
			Electrical and Electronics Eng
4	Doç. Dr. Mehmet Eren Gülşan	Design of a reinforced concrete factory by the consideration of both energy savings and vibration resistance	Civil Engineering
			Mechanical Engineering
			Electrical and Electronics Eng
5	Prof. Dr. Mehmet İshak Yüce	Design and optimization of renewable energy sources and investigation of structural integrity	Civil Engineering
			Mechanical Engineering
			Electrical and Electronics Eng
6	Prof.Dr. Mustafa Özakça	Design of the future house (Energy efficient, Water efficient, Social responsibility and innovative design)	Civil Engineering
			Mechanical Engineering
			Electrical and Electronics Eng
			Industrial Engineering
7	Prof. Dr. Hamza Güllü	Post-Eartquake Damage Evaluation of Buildings	Civil Engineering
			Mechanical Engineering
			Electrical and Electronics Eng
8	Doç. Dr. Talha Ekmekyapar	Design of an Industrial Steel Building with Sprinkler Fire Extinguishing Sytem	Civil Engineering
			Mechanical Engineering
9	Dr.Öğr.Üyesi Esra Eylem Karataş	Design of ecological and sustaniable buildings	Civil Engineering
			Mechanical Engineering
			Electrical and Electronics Eng
			Industrial Engineering
10	Prof.Dr.Mustafa Günal	Flood Prediction and Disaster Risk Analysis using GIS	Civil Engineering
			Mechanical Engineering
11	Dr. Öğr. Üyesi Ayşe Yeter GÜNAL	Flood Prediction and Disaster Risk Analysis using Artificial Intelligance	Civil Engineering
			Mechanical Engineering
12	Doç. Dr. Mehmet Tolga GÖĞÜŞ	Design of extensometer for tensile testing of metals	Civil Engineering
			Mechanical Engineering
13	Prof Dr Ali Fırat ÇABALAR	Sustainable materials for road pavemnt designs	Civil Engineering
			Metallurgical and Materials Eng
14	Prof. Dr. Nildem Tayşi	Structural Optimization of 3D Tower Cranes	Civil Engineering
			Mechanical Engineering

			Electrical and Electronics Eng
			Industrial Engineering
15	Prof.Dr.Ergun ERÇELEBİ	Development o robot arm based on machine learning for product sorting	Electrical and Electronics Eng
			Mechanical Engineering
16	Prof. Dr. Arif Nacaroğlu	Rope-jumping robot: The students will design and construct any kind of robot that will detect the motion of, and jump, a skipping rope that rotates at an adjustable speed.	Electrical and Electronics Eng
			Mechanical Engineering
17	Prof. Dr. Nuran Doğru	Laser Cutter	Electrical and Electronics Eng
			Mechanical Engineering
18	Prof. Dr. Savaş UÇKUN	Design and construction of a project which uses electromagnetic wave for transformation of data	Electrical and Electronics Eng
			Engineering Physics
19	Prof. Dr. Gölge Ögücü Yetkin	Multilegged Robots	Electrical and Electronics Eng
			Mechanical Engineering
20	Prof. Dr. Uğur Cem Hasar	Structural Health Monitoring Using Non-Destructive Microwave Techniques	Electrical and Electronics Eng
			Civil Engineering
21	Prof. Dr. Sema Kayhan	Development of Student Attendance System Based on Fingerprint Biometrics	Electrical and Electronics Eng
			Industrial Engineering
22	Doç.Dr. Tolgay KARA	Glove-controlled Robotic Hand: The project involves design and construction of a robotic hand with five fingers, similar to a real human hand.	Electrical and Electronics Eng
			Mechanical Engineering
23	Doç. Dr. Taner İnce	Automatic Turkish coffee maker	Electrical and Electronics Eng
			Mechanical Engineering
24	Doç.Dr. A. Mete VURAL	Design and Implementation of an Electric Crane	Electrical and Electronics Eng
			Mechanical Engineering
25	Dr. Öğr. Üyesi Seydi KAÇMAZ	Design and implementation of Computer Vision based 3D printed Robotic Arm controlled by interactive GUI	Electrical and Electronics Eng
			Mechanical Engineering
26	Dr. Öğr. Üyesi Musa Bute	Design of solid granule pumping machine	Electrical and Electronics Eng
			Mechanical Engineering
27	Dr. Öğr. Üyesi Serkan ÖZBAY	Investigating the conductivity of stretchable fabrics for different bending levels	Electrical and Electronics Eng
			Textile Engineering
28	Dr. Öğr. Üyesi Ali Osman ARSLAN	Desing, analysis and costruction of a MAGLEV Car	Electrical and Electronics Eng
			Mechanical Engineering
29	Dr. Öğr. Üyesi Mahmut AYKAÇ	Smart Car Transmission	Electrical and Electronics Eng
			Mechanical Engineering
30	Dr. Öğr. Üyesi Mehmet DEMİR	A Prototype Design of a rescue boat with a remote controller	Electrical and Electronics Eng
			Mechanical Engineering
31	Dr.Öğr. Üyesi Nurdal Watsuji	Pick, sort and place robot	Electrical and Electronics Eng
			Mechanical Engineering
32	Prof.Dr.Serap U.SEÇKİNER	Work load balancing in scheduling problems	Industrial Engineering
			Mechanical Engineering
33	Doç.Dr. Zeynep D. U. DURMUŞOĞLU	Simulation of different queing systems in a manufacturing or service organization where there are pallel resources.	Industrial Engineering
			Mechanical Engineering
34	Doç.Dr. Alptekin DURMUŞOĞLU	A system restructuring study by using lean manufacturing principles to increase manufacturing efficiency	Industrial Engineering
			Mechanical Engineering
35	Doç. Dr. Eren ÖZCEYLAN	Electricity consumption forecast	Industrial Engineering
			Electrical and Electronics Eng

36	Dr. Öğr. Üy. Pınar KOCABEY ÇİFTÇİ	Investigation of circular economy and symbiotic relationship opportunities to increase the sustainability of the industry	Industrial Engineering
			Mechanical Engineering
			Food Engineering
37	Prof. Dr.ÖMER EYERCİOĞLU	DEVELOPING 3D LATTICE STRUCTURES FOR MECHANICAL DESIGN-A 3D PRINTING ISSUE	Mechanical Engineering
			Metallurgical and Materials Eng
			Industrial Engineering
38	Prof. Dr.ÖMER EYERCİOĞLU	MANUFACTURING OF INDUSTRIAL CERAMIC PARTS BY USING LOW PRESSURE CERAMIC INJECTION	Mechanical Engineering
			Metallurgical and Materials Eng
			Industrial Engineering
39	Prof. Dr.ÖMER EYERCİOĞLU	ABRASIVE FLOW FINISING OF SMALL HOLES	Mechanical Engineering
			Electrical and Electronics Eng
40	Dr.Öğr.Üyesi N. FURKAN DOĞAN	Climatic chamber design for the drop-weight impact test device	Mechanical Engineering
			Electrical and Electronics Eng
41	Prof. Dr. EMRAH ÖZAHİ	A System Restructuring Study by Using Lean Manufacturing Principles to Increase Production Efficiency by Reducing Waste Energy.	Mechanical Engineering
			Industrial Engineering
42	Dr.Öğr.Üyesi M. ERKAN KÜTÜK	Manufacturing and Control of a 2 DOF Press Mechanism Prototype	Mechanical Engineering
			Electrical and Electronics Eng
43	Dr.Öğr.Üyesi SADIK OLGUNER	Static structural and harmonic response analyses of a highway bridge using ANSYS Workbench	Mechanical Engineering
			Civil Engineering
44	Dr.Öğr.Üyesi SADIK OLGUNER	Mass/Volume optimisation of a planetary gearbox for wind turbine applications	Mechanical Engineering
			Industrial Engineering
45	Dr.Öğr.Üyesi SADIK OLGUNER	Experimental investigation of process parameters in friction welding	Mechanical Engineering
			Metallurgical and Materials Eng
46	Prof.Dr. SADETTİN KAPUCU	Design a tremor reduction device	Mechanical Engineering
			Electrical and Electronics Eng
47	Doç.Dr. Hüseyin YAĞLI	Off-grid smart green city design	Mechanical Engineering
			Electrical and Electronics Eng
			Civil Engineering
48	Prof.Dr. Nihat YILDIRIM Prof.Dr. A. İhsan KUTLAR	Design and construction of a prototype solar air heater with measurement and control of input and output parameters	Mechanical Engineering
			Electrical and Electronics Eng
			Food Engineering
49	Prof.Dr. Nihat YILDIRIM Prof.Dr. A. İhsan KUTLAR	Design and construction of a solar tracker unit with measurement and control of input and output parameters	Mechanical Engineering
			Electrical and Electronics Eng
			Industrial Engineering
50	Prof.Dr. Nihat YILDIRIM Prof.Dr. A. İhsan KUTLAR	Design of innovative energy saving projects for housing and building applications	Mechanical Engineering
			Civil Engineering
			Engineering Physics
51	Prof. Dr. Ahmet KAYA	Design of Pistahio Paste Grinder	Food Engineering
			Mechanical Engineering
52	Prof. Dr. Esra İBANOĞLU	Particle Size Determination by Light Scattering Method	Food Engineering
			Optic Acoustical Engineering
			Industrial Engineering
53	Prof. Dr. Şenol İBANOĞLU	Design of a milling device suitable for grinding oily nuts without severe heat accumulation due to friction	Food Engineering
			Mechanical Engineering
			Electrical and Electronics Eng

54	Prof. Dr. Hüseyin BOZKURT	Mathematical modelling of experimental data	Food Engineering
			Mechanical Engineering
			Electrical and Electronics Eng
			Industrial Engineering
55	Prof. Dr. Medeni MASKAN	Use of ultrasound in detection of maturity level of fruits and vegetables.	Food Engineering
			Engineering Physics
			Optic Acoustical Engineering
56	Dr. Öğr. Üyesi Fatih BALCI	Design of Artificial Intelligence assisted process model for Bulgur plants	Food Engineering
			Mechanical Engineering
			Industrial Engineering
57	Dr. Öğr. Üyesi Abdulaziz KAYA	Determination of Sustainable Polymer Usage in Plastic Industry of Gaziantep Province	Metallurgical and Materials Eng
			Textile Engineering
			Industrial Engineering
58	Doç. Dr. Abdulcabbar YAVUZ	Formation and Application of Flexible Electrodes	Metallurgical and Materials Eng
			Textile Engineering
			Electrical and Electronics Eng
59	Doç. Dr. Abdulcabbar YAVUZ	Design and manufacture of digital scale	Metallurgical and Materials Eng
			Mechanical Engineering
			Electrical and Electronics Eng
			Industrial Engineering
60	Dr. Öğr. Üyesi Azmi Mert ÇELİK	Synthesis of flame retardant zinc borate powders using thermochemical methods	Metallurgical and Materials Eng
			Textile Engineering
			Industrial Engineering
61	Doç. Dr. Derya K. YAVUZ	Design and cost analysis of a dental restorative production plant based on QCD principles	Metallurgical and Materials Eng
			Mechanical Engineering
			Industrial Engineering
62	Dr. Öğr. Üyesi Halil İbrahim İÇOĞLU	Production of Glass Fiber Reinforced Polyester Composites via Vacuum Infusion Method	Metallurgical and Materials Eng
			Textile Engineering
			Industrial Engineering
63	Doç. Dr. Mikail ASLAN	Nanoparticle reinforced polymer composites	Metallurgical and Materials Eng
			Textile Engineering
			Industrial Engineering
64	Doç. Dr. Mustafa Güven GÖK	Investigation of the effect of heat treatment on the mechanical properties of polymeric 3D lattice structures	Metallurgical and Materials Eng
			Mechanical Engineering
			Industrial Engineering
65	Prof.Dr.Bülent GÖNÜL	A search on viability of fusion reactors	Physics Engineering
			Mechanical Engineering
			Electrical and Electronics Engineering
66	Doç. Dr. R.Güler YILDIRIM	Engineering Applications of Excel	Electrical and Electronics Engineering
			Mechanical Engineering
			Civil Engineering
			Industrial Engineering
			Textile Engineering
			Metallurgical and Materials Eng

67	Prof.Dr.Ömer F. Bakkaloğlu	Design of solar cell	Engineering Physics
			Mechanical Engineering
			Electrical and Electronics Eng
68	Assist. Prof. Dr. Mehmet KOÇAK	Wireless Transmission of Electricity	Physics Engineering
			Electrical and Electronics Engineering
			Optic and Acoustical Engineering
69	Dr. Öğr. Üyesi Serap Çelik	Efficiency calculations of half-cut solar panels under shaded conditions	Engineering of Physics
			Optic and Acoustical Engineering
			Electrical and Electronics Engineering
70	Prof. Dr. Okan Özer	Applications of Monte Carlo Method (MCM) in Reactor Safety&Security Systems	Engineering Physics
			Mechanical Engineering
			Electrical and Electronics Engineering
71	Prof. Dr.Beşire GÖNÜL	An investigation of band gap tuning in semiconductors for photonic devices	Engineering Physics
			Optic and Acoustical Engineering
			Metallurgical and Materials Eng
72	Prof.Dr.Ahmet BİNGÜL	Bidirectional optical communication	Optic and Acoustical Eng
			Engineering Physics
			Mechanical Engineering
			Electrical and Electronics Eng
73	Prof.Dr.Zihni ÖZTÜRK	The investigation of fusion energy	Engineering Physics
			Mechanical Engineering
			Electrical and Electronics Eng
74	Prof.Dr.Eser OLĞAR	Design and construction of absorptive Acoustical panels	Engineering of Physics
			Optic and Acoustical Engineering
			Civil Engineering
			Mechanical Engineering
75	Prof.Dr.Metin BEDİR	Investigation of the corrosion behaviour of the metallic materials by the way different methods	Engineering of Physics
			Mechanical Engineering
			Metallurgical and Materials Eng
76	Prof.Dr.A.Necmeddin YAZICI	Investigation of luminaire and road properties on uniform lighting in road examples.	Optic and Acoustical Eng
			Engineering Physics
			Electrical and Electronics Engineering
77	Prof. Dr. Hüseyin TOKTAMIŞ	The most common composite materials and their application areas	Civil Engineering
			Mechanical Engineering
			Industrial Engineering
			Physics Engineering
78	Prof.Dr.E.Vural KAFADAR	Ultrasonic Computer Tomography	Optic and Acoustical Eng
			Engineering Physics
			Electrical and Electronics Engineering
79	Prof.Dr.Hayriye TÜTÜNCÜLER	Investigation of dye sensitized solar celles	Electrical and Electronics Engineering
			Food Engineering

			Engineering Physics
80	Prof.Dr.Ayda BEDALL	Prototype automatic glass-plastic bottle sorter for a recycling plant.	Electrical and Electronics Engineering
			Engineering Physics
81	Doç.Dr.Mustafa YILMAZ	Water harvesting from moisture in the air by 3D mesh nets.	Optic and Acoustical Eng
			Mechanical Engineering
			Engineering Physics
82	Prof.Dr.Ramazan KOÇ	Investigation of enzyme battery	Engineering Physics
			Food Engineering
83	Prof. Dr. Mehmet Topalbekiroğlu	Preparation of software for stepper motors for use in textile machines	Textile Engineering
			Mechanical Engineering
			Electrical and Electronics Eng
84	Prof. Dr. Cem Güneşoğlu	Web based testing laboratory search portal	Textile Engineering
			Electrical and Electronics Eng
85	Doç. Dr. Halil İbrahim Çelik	Design and production of conductive knitted fabric	Textile Engineering
			Electrical and Electronics Eng
86	Doç. Dr. Hatice Kübra Kaynak	Investigation of conductive yarn production	Textile Engineering
			Metallurgical and Materials Eng
87	Doç. Dr. Züleyha Değirmenci	Designing of thermoregulated textile structures	Textile Engineering
			Electrical and Electronics Eng
88	Dr. Öğr. Üyesi Mehmet Erdem İNCE	The design and the production of green composite material from linen yarn weft-knitted reinforcement fabric and pine resin matrix (TÜBİTAK 2209 applied).	Textile Engineering
			Metallurgical and Materials Eng
			Civil Engineering
			Engineering Physics
			Industrial Engineering
			Mechanical Engineering
89	Dr. Öğr. Üyesi Mehmet Erdem İNCE	The use of JUMP® statistical software package in engineering data analyses.	Textile Engineering
			Metallurgical and Materials Eng
			Civil Engineering
			Engineering Physics
			Industrial Engineering
			Mechanical Engineering
			Electrical and Electronics Eng
			Food Engineering
			Optic and Acoustical Eng
90	Dr. Öğr. Üyesi Hatice İbili	Nanoparticle Production via Electrohydrodynamic Atomization for Functional Surfaces	Textile Engineering
			Food Engineering
			Metallurgical and Materials Eng
			Mechanical Engineering
91	Dr. Öğr. Üyesi Hatice İbili	Parameters Affect on Nanoparticle Formation via Electrohydrodynamic Atomization	Textile Engineering
			Food Engineering
			Metallurgical and Materials Eng
			Mechanical Engineering