

2024-2025 FALL 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)
4	PROF.DR.A. İHSAN KUTLAR PROF.DR. NİHAT YILDIRIM	Development of a defect detection system based on AI coding	Mech. Eng.	Mech. Eng. Electrical and Electronics Eng. Industrial Eng. Engineering Physics
5	DR.ÖĞR. ÜYESİ ALI KILIÇ	Conceptual and Architectural Design of Autonomous Warehouse Robots	Mech. Eng.	Mech. Eng. Electrical and Electronics Eng. Industrial Eng.
6	PROF.DR. Ö. YAVUZ BOZKURT	Filament dryer storage box for 3D printers This project covers the construction of a 5-axis 3D printer. The necessary parts will be given by the supervisor.	Mech. Eng.	Mech. Eng. Electrical and Electronics Eng. Metallurgical and Materials Eng.
7	DOÇ.DR. FUAT YILMAZ	Design and construction of a Bladeless Vortex Hydro Turbine Departments	Mech. Eng.	Mech. Eng. Electrical and Electronics Eng.
9	DR. ÖĞR. ÜYESİ SADIK OLGUNER	Defect detection on material surface with image processing	Mech. Eng.	Mech. Eng. Electrical and Electronics Eng. Industrial Eng.
11	PROF.DR. AHMET ERKLİÇ	Design and Fabrication of Hand Operated Injection Molding Machine	Mech. Eng.	Mech. Eng. Textile Engineering Metallurgical and Materials Eng. Electrical and Electronics Eng. Engineering Physics
15	DOÇ.DR. HÜSEYİN YAĞLI	Off-grid smart green city design considering energy, building and food sustainability	Mech. Eng.	Mech. Eng. Civil eng. Food Eng. Electrical and Electronics Eng.

17	PROF.DR. EMRAH ÖZAHİ	A System Restructuring Study by Using Lean Manufacturing Principles to Increase Production Efficiency by Reducing Waste Energy.	Mech. Eng.	Mech. Eng. Industrial Eng.
27	Dr.Öğr.Üyesi Ali Osman Arslan	PV Panel Cleaner,	Electrical and Electronics Eng.	Electrical and Electronics Eng. Mech. Eng.
29	Prof. Dr. Sema Kayhan	Development of Student Attendance System Based on Fingerprint Biometrics	Electrical and Electronics Eng.	Electrical and Electronics Eng. Industrial Eng.
30	Doç.Dr. Taner Ince	Hand Motion Controlled Robotic Vehicle	Electrical and Electronics Eng.	Electrical and Electronics Eng. Mech. Eng.
34	Prof. Dr. Medeni MASKAN	Use of ultrasound in detection of maturity level of fruits and vegetables.	Food Eng.	Food Eng. Engineering Physics Optic and Ac. Eng. Industrial Eng.
36	Prof.Dr. A. Coşkun DALGIÇ	Process simulation in food industry	Food Eng.	Food Eng. Industrial Eng. Mech. Eng.
37	Prof.Dr. Sevim KAYA	Evaluation of consumer preferences about dairy and dairy products	Food Eng.	Food Eng. Industrial Eng. Mech. Eng.
38	Prof. Dr. Emine ERÇELEBİ	Application of industrial engineering techniques for cost reduction in frozen foods	Food Eng.	Food Eng. Industrial Eng.
39	Prof. Dr. Sibel FADİLOĞLU	Design of electrophoresis instrumental system for protein purification	Food Eng.	Food Eng. Mech. Eng. Electrical and Electronics Eng.
40	Prof. Dr. Hüseyin BOZKURT	Mathematical modelling of experimental data	Food Eng.	Food Eng. Industrial Eng. Electrical and Electronics Eng.
41	Prof.Dr. Mustafa BAYRAM	Food Consumption Trends	Food Eng.	Food Eng. Industrial Eng. Computer Eng. Mech. Eng. Software Eng. Economics, ¹⁰ Social Sciences Departments, Gastronomy Department, Engineering Physics
47	Prof.Dr.Bülent GÖNÜL	Quantum Philosophy of Life	Engineering Physics	Mech. Eng. Electrical and Electronics Eng.
49	Prof.Dr.Ömer F. Bakkaloğlu	Design of solar cell	Engineering Physics	Engineering Physics Mech. Eng. Electrical and Electronics Eng.
52	Prof. Dr. Okan Özer	A Case Study: Thermodynamic-based Simulation of Akkuyu Nuclear Power Plant	Engineering Physics	Engineering Physics Mech. Eng. Electrical and Electronics Eng. Industrial Eng.
54	Prof.Dr.Eser OLGAR	Design and construction of absorptive acoustic panels	Engineering Physics	Engineering Physics Optic and Ac. Eng. Civil eng. Mech. Eng. Architecture
57	Prof.Dr.E.Vural KAFADAR	Applications of thermal imaging camera	Engineering Physics	Engineering Physics Optic and Ac. Eng. Electrical and Electronics Eng.
63	Prof. Dr. Abdulkadir Çevik	Artificial Intelligence Applications in Engineering	Civil eng.	Civil eng. Mech. Eng. Electrical and Electronics Eng. Industrial Eng.
64	Prof. Dr. Esra Mete Güneyisi	Design of a steel transmission tower based on safety, efficiency and sustainability	Civil eng.	Civil eng. Electrical and Electronics Eng. Mech. Eng. Industrial Eng.
65	Doç. Dr. Mehmet Eren Gülşan	Design of a reinforced concrete factory by the consideration of both energy savings and vibration resistance	Civil eng.	Civil eng. Mech. Eng. Electrical and Electronics Eng.
66	Prof. Dr. Mehmet İshak Yüce	Design and optimization of renewable energy sources and investigation of structural integrity	Civil eng.	Civil eng. Mech. Eng. Electrical and Electronics Eng.
67	Prof.Dr. Mustafa Özakça	Design of the future house (Energy efficient, Water efficient, Social responsibility and innovative design)	Civil eng.	Civil eng. Electrical and Electronics Eng. Mech. Eng. Industrial Eng. Architecture Students from departments other than those listed can take part

68	Prof. Dr. Hamza Güllü	Post-Earthquake Damage Evaluation of Buildings	Civil eng.	Civil eng. Mech. Eng. Electrical and Electronics Eng.
75	Prof. Dr. Nildem Tayşi	Optimum design and cost analysis of electrical transmission towers	Civil eng.	Civil eng. Mech. Eng. Electrical and Electronics Eng. Industrial Eng.
76	Prof. Dr. Aytaç Güven	Design of Efficient and Passive Buildings	Civil eng.	Civil eng. Mech. Eng. Electrical and Electronics Eng. Industrial Eng.
77	Prof.Dr.Serap U.SEÇKİNER	Planning building and district energy systems considering simulate districts with heating and cooling networks, renewable energies, hydrogen technologies, heat pumps and seasonal storages	Industrial Eng.	Industrial Eng. Mech. Eng.
80	Dr. Öğretim Üyesi Pınar KOCABEY ÇİFTÇİ	Investigation of circular economy and symbiotic relationship opportunities to increase the sustainability of the industry	Industrial Eng.	Industrial Eng. Mech. Eng.
83	Prof. Dr. Cem Güneşoğlu	Web based testing laboratory search portal	Textile Engineering	Textile Engineering Electrical and Electronics Eng. Computer Engineering
84	Prof. Dr. Halil İbrahim Çelik	Design and production of conductive knitted fabric	Textile Engineering	Textile Engineering Electrical and Electronics Eng.
87	Doç. Dr. Mehmet Erdem İNCE	The use of JUMP® statistical software package in engineering data analyses.	Textile Engineering	Textile Engineering All engineering departments
90	Doç. Dr. Abdulaziz KAYA	Design Of A Pilot Water Treatment Plant For The Removal Of Anionic Dyes From Textile Wastewater With The Use Of Cationic Adsorbent Materials	Metallurgical and Materials Eng.	Metallurgical and Materials Eng. Mech. Eng. Industrial Eng. Textile Engineering
92	Doç. Dr. Derya KAPUSUZ YAVUZ	Design and cost analysis of a dental restorative production plant based on QCD principles	Metallurgical and Materials Eng.	Metallurgical and Materials Eng. Mech. Eng. Industrial Eng.
93	Doç. Dr. Mikail Aslan	Nanoclay reinforced Al-Cu composites	Metallurgical and Materials Eng.	Metallurgical and Materials Eng. Mech. Eng. Industrial Eng.
94	Doç. Dr. Mustafa Güven GÖK	Designing an automation system for Jominy-end quench testing machine	Metallurgical and Materials Eng.	Metallurgical and Materials Eng. Mech. Eng. Industrial Eng.

