

EEM 413-414 PROJECT ASSIGNMENTS FOR 2025-2026 ACADEMIC YEAR						
Project ID	Title	Advisor	Team Size	Students		
PRJ01	BLDC Motor Controller Design	Assist. Prof. Dr. Abdülkadir Zirek	3 Students (1 Team)	Yunus Emre ÜNLÜ	Yusuf ÇELİK	Fazlı KORKMAZ
PRJ02	3DTeleBot: An Efficient Telerobotic System for Human Motion Imitation	Assist. Prof. Dr. Altan Onat	3 Students (1 Team)	Hasan VATANSEVER	İlayda KURT	Nurullah DEMİR
PRJ03	SmartStream: LLM-Powered Search and Recommendation Engine for Streaming Platforms	Prof. Dr. Atakan Doğan	3 Students (1 Team)	Ömer Faruk KAPLAN	Umut Kaan ŞAHİN	Zeynep AKÇAY
PRJ04	Energy Consumption Estimation using Petri Nets for Real Systems	Prof. Dr. Aydın Aybar	3 Students (1 Team)	Berk İNCE	Arda AKDENİZ	Ozan Alp İLTİ
PRJ05	Real-Time Emotion Recognition on Embedded Systems Using Edge AI	Assist. Prof. Dr. Burak Batmaz	3 Students (1 Team)	Mustafa YURTSEVEN	Salih YILMAZ	Emre GELEN
PRJ06	Real-Time People Counting with WIFI CSI on Edge Devices	Assist. Prof. Dr. Can Uysal	3 Students (1 Team)	Kağan Berat ÜNSAL	Ahmet Emre SAYGILI	Emre ERCAN
PRJ07	5G MIMO Antenna Design	Prof. Dr. Cengiz Özzaım	3 Students (1 Team)	Aysel İLHAN	Eray ARSLAN	Ceyda KARADON
PRJ09	Visual Theremin	Assoc. Prof. Dr. Emin Germen	3 Students (1 Team)	İdil Piraye TOPTAŞ	Sarper AYGÜL	Diñçer Onur SELEK
PRJ10	Silencing the Noise with Real-Time Optical Signal Detection using Microcontrollers	Prof. Dr. Feridun Ay	3 Students (1 Team)	İrem Bengü MERCAN	Anıl GEREN	Uğur KARADENİZ
PRJ11	Building Electrical experimental setup for kids	Assoc. Prof. Dr. Hakkı Ulaş Ünal	3 Students (1 Team)	Bayram ÇAKIR	Ata OZTURK	İlayda GÜR
PRJ12	AI-Based EV Charging System	Prof. Dr. Hanife Apaydın Özkan	2-3 Students (1 Team)	Mehtap TEKER	Ömer Berke KARAKAYA	Mert ŞİMŞEK
PRJ13	LLM Based Database Management System	Assist. Prof. Dr. Mehmet Fidan	3 Students (1 Team)	Anıl AYDIN	Derya Umut KULALI	Sıla ALHAN
PRJ14	Seizure Detection Using 3D-CNN on Transformed EEG Data	Assist. Prof. Dr. Mehmet Fidan	3 Students (1 Team)	Serdar BAL	Anıl AYDIN	
PRJ16	Prediction of Remaining Useful Life (RUL) of Industrial Devices	Assist. Prof. Dr. Onur Kılınç	3 Students (1 Team)	Mohammed Sadeq Naji ALWAN	Alptekin OKÇU	
PRJ17	Disease Detection Using Tongue Images from Ayurveda Perspective	Assist. Prof. Dr. Onur Kılınç	3 Students (1 Team)	Ezgi GÜNER	Caner GÜLBETEKİN	Emrullah EKMEN
PRJ18	GrowSphere: Urban Garden Cultivation with AI, Image Processing and Augmented Reality	Prof. Dr. Ömer Neziğ Gerek	3 Students (1 Team)	Ümmühan AYAZ	Enes Taha BİLGİLİ	Deniz KARAKULAK
PRJ19	Multi-AGV Coordination System for Dynamic Warehouse Operations	Prof. Dr. Ömer Neziğ Gerek	3 Students (1 Team)	Rabia KUTLUCA	Berkay KURT	Mehmet SANCAK
PRJ20	Acoustic Camera	Assoc. Prof. Dr. Emin Germen & Assist. Prof. Dr. Semiha Türkay	3 Students (1 Team)	Fatma Nur SEZGİN	Adem SAĞDIÇ	Cem AYTAŞ
PRJ21	SmartFlight: Environmentally Aware H-Type Drone for Adaptive and Secure Payload Transport	Assist. Prof. Dr. Semiha Türkay	3 Students (1 Team)	Ahmet BALGAY	Ata Tibet TANIK	Rana Başak KOCAGÖZ
PRJ22	Machine Learning for hyperspectral imaging to estimate the macronutrient concentrations in blueberries	Assist. Prof. Dr. Semiha Türkay	3 Students (1 Team)	Emre DEMİRCİ	Rümeysa DİLAK	
PRJ23	How Do Individuals with Schizophrenia Hear the World?	Assist. Prof. Dr. Semiha Türkay	3 Students (1 Team)	Fevzi ÇAVDAR		
PRJ25	Development of an Interactive Software Platform for Power Electronics Laboratory Experiments	Assist. Prof. Dr. Şener Ağalar	3 Students (1 Team)	Mete KARAAĞAÇ	Hüseyin Umut ARI	Tuğrul BİLİR
PRJ26	SmartEnerGreen: Revolutionizing Energy-Driven Greenhouse Farming	Prof. Dr. Ümmühan Başaran Filik	3 Students (1 Team)	Beyhan KULAÇ	İbrahim ERDOĞAN	Berkehan VURALOĞLU
PRJ27	Development of an Efficient Control System for Stabilizing and Path-Following of an Underwater Vehicle	Assist. Prof. Dr. Hüseyin Ersin Erol	3 Students (1 Team)	Furkan BAYRAM	Zeynep Selin HATUNOĞLU	Necati DURMUŞ
PRJ28	Development of an Image Processing System for an Underwater Vehicle	Assist. Prof. Dr. Hüseyin Ersin Erol	3 Students (1 Team)	Ahmet Furkan GÜVEN	Zeynep DOĞAN	Batuhan HAFÇI
PRJ29	Self-Balancing Microgrids	Assist. Prof. Dr. Özge Erol	3 Students (1 Team)	Berk BADEM	Ahmet Kaan DAR	Şükrü Egemen İŞİK
PRJ30	3-Wheel Navigator Robot	Prof. Dr. Nuray At	2-3 Students (1 Team)	Aysima PAK	Emre ŞEN	Ahmet Hakan SEYİRT
PRJ31	SmartGridX: Next-Generation Intelligent Grid Solution for a Sustainable Future	Prof. Dr. Ümmühan Başaran Filik	3 Students (1 Team)	Baver Zaman	Ümit Özkaya	Eren Arda
PRJ32	Design and Implementation of a Low-Latency High-Frequency Trading System	Prof. Dr. Atakan Doğan	3 Students (1 Team)	Remiz Faruk Kır	Emin Can Kartal	
PRJ33	Multi-Sensor Fusion for Improved Object Tracking: A Hybrid LiDAR-Vision Approach	Prof. Dr. Nuray At	3 Students (1 Team)	Sezen Karaoğlu		
PRJ34	Design and Implementation Tools for On-Chip Optical Waveguide Devices	Prof. Dr. Nihan Kosku Perkgöz	3 Students (1 Team)	Ceylin Sevinç	Ali Saygı	Kadir Gürcan
PRJ35	Vehicle Control and Telemetry System	Assist. Prof. Dr. Oğuzkağan Alıç	3 Students (1 Team)	Orhun Vanlı	Metin Eren Çubukçu	Hüseyin Karaca

NOTE: Projects marked in yellow are proposed by the students