

EEM 413-414 PROJECT ASSIGNMENTS FOR 2024-2025 ACADEMIC YEAR

Project ID	Title	Advisor	Team Size	Students					
PRJ01	Smart Count: Efficient and Affordable Object Counting	Assist. Prof. Dr. Altan Onat	3 Students (1 Team)	Kerem Çelik	Mert Mermer	Yusuf Doğan Çiçek			
PRJ02	Hardware Implementations of Deep Neural Networks	Prof. Dr. Atakan Doğan	2 Students (1 Team)	Sercan Tosun	Talha Tarhan				
PRJ03	Design and implementation of a RISC-V microprocessor	Prof. Dr. Atakan Doğan	2 Students (1 Team)	Kağan Erdem	Barış İlgen				
PRJ04	Energy Consumption by Petri Net Model	Prof. Dr. Aydın Aybar	3 Students (1 Team)	Zeynep Delen	İremnur Efe	Ali Şahin			
PRJ05	Design and implementation of ARM Cortex-M0 microprocessor on FPGA	Assist. Prof. Dr. Burak Batmaz	3 Students (1 Team)	Yunus Emre Doğan	Hasan Budak	Hayrettin Emre Bayazıt			
PRJ06	Human Activity Recognition Using RF Signals	Assist. Prof. Dr. Can Uysal	3 Students (1 Team)	Elif Kula	Oğuzhan Esin	Barış Er			
PRJ08	Impedance on Tube	Assoc. Prof. Dr. Emin Germen	4 Students (1 Team)	Mahmut Sarı	Emre Kapisız	Ayşen Şimşek	Harun Yavaş		
PRJ09	Development of a Balanced Amplified Si Photodiode Circuit for Advanced Scientific Instrumentation	Prof. Dr. Feridun Ay	3 Students (1 Team)	Tolunay Yücel	Eren Yorgancı	Mehmet Karacaoğlu			
PRJ10	Control Applications on Delay Systems	Assoc. Prof. Dr. Hakkı Ulaş Ünal	3 Students (1 Team)	Kaan Ergut	Mertcan Türedi				
PRJ11	Early Fault Detection in Electrical Appliances via AI	Prof. Dr. Hanife Apaydın Özkan	6 Students (2 Team)	Alper Karatay	Özay Platin	İlayda Ecemso Sak	Muhammed Emin Uzunlar	Ahsen Sude Naz Çakır	Kerem Serim
PRJ12	Classification of Maintenance Records Using LLM Models and Routing to Appropriate Workshops	Assist. Prof. Dr. Mehmet Fidan	3 Students (1 Team)	Taha Berk Erol					
PRJ14	Demonstration a Smart Greenhouse Prototype based on Artificial Intelligence	Prof. Dr. Nihan Kosku Perkgöz	3 Students (1 Team)	Fatih Eren Özecik	Nurefşan İmanlık	Recep Eray Erçetin			
PRJ15	Development of an Indoor Navigation Robot with Environmental Mapping Capabilities	Prof. Dr. Nuray At	4 Students (1 Team)	Mehmet Arif Pehlivan	Ahmet Sinan Kaya	Hamit Budak	Furkan Levent Olgun		
PRJ16	Sign Language Translator via Video-to-text Generative Transformer	Prof. Dr. Ömer Neziğ Gerek	3 Students (1 Team)	Furkan Altınışik	Kutay Ertürk				
PRJ17	Our heart is talking to us: A translation perspective to ECG classification using generative transformers	Prof. Dr. Ömer Neziğ Gerek	3 Students (1 Team)	Berat Kutay Uğraş	Ömer Faruk Kaplan	İbrahim Talha Saygı			
PRJ18	The Great Depression	Assist. Prof. Dr. Onur Kılıç	3 Students (1 Team)	Najlaa Neamah					
PRJ20	Vibration Isolation for H-type Drone	Assist. Prof. Dr. Semiha Türkay	3 Students (1 Team)	Furkan Aydoğan					
PRJ21	Path Control of an Unmanned Air Vehicle carrying load by using camera systems	Assist. Prof. Dr. Semiha Türkay	3 Students (1 Team)	İsmail Avcu	Uğur Berk Kılıç	Eren Erdoğan			
PRJ22	Design of an ML based smart charging reservation system for EV parking lot.	Assist. Prof. Dr. Sıtkı Güner	3 Students (1 Team)	Mücahit Akfıdan	Muharrem Can Kantemur	Nurcan Koç			
PRJ24	Wireless Battery Management Systems	Assist. Prof. Dr. Sıtkı Güner	3 Students (1 Team)	Mehmet Hızırer	Buğra Başer	Selman Mutlu	Projects marked in yellow are proposed by the students		
PRJ25	Design and Analysis of a BLDC Motor Using Ansys RMXprt	Assist. Prof. Dr. Abdulkadir Zirek	3 Students (1 Team)	Begüm Övüç	Nazlı Yazıcı				
PRJ26	SRGAN (Super-Resolution Generative Adversarial Networks) based video restoration	Prof. Dr. Ömer Neziğ Gerek	2 Students (1 Team)	Kağan Çetin	Hacer Akça				
PRJ27	Hydroponic Agriculture Managment System By Ai	Prof. Dr. Nihan Kosku Perkgöz	3 Students (1 Team)	Süleyman Talha Zeybek	Aydost Ensar Gönüllü	Sercan Sağaltıcı			