

| EEM 413-414 PROJECT ASSIGNMENTS FOR 2023-2024 ACADEMIC YEAR | | | | | | | | | |
|---|--|------------------------------------|---------------------|-----------------------|------------------------|-----------------------|-------------------------|------------------------|----------------------|
| Project ID | Title | Advisor | Team Size | Students | | | | | |
| PRJ01 | Design and implementation of an energy-efficient induction motor drive system. | Assist. Prof. Dr. Abdulkadir Zirek | 3 Students (1 Team) | Berat Baki Akyürek | Ahmet Can Tekel | | Kamil Kavcar | | |
| PRJ02 | Follow me if you can! | Assist. Prof. Dr. Altan Onat | 4 Students (1 Team) | Batuhan Gürdal | Ayşe Karakoyun | Alperen Duran | M Duhan Yalçinkaya | | |
| PRJ03 | Hardware Implementations of Artificial Neural Networks | Prof. Dr. Atakan Doğan | 2 Students (1 Team) | Selin Akalın | | Mehmet Yıldırım Körk | | | |
| PRJ04 | Crowd emotion decision and application | Prof. Dr. Atakan Doğan | 3 Students (1 Team) | Işık Kurgöz | Arda Aksay | | M Ceren Boz | | |
| PRJ05 | Edge Detection by Using Petri Nets | Prof. Dr. Aydın Aybar | 3 Students (1 Team) | Elif Can | İnanç Özmen | | Beyza Kocayığıt | | |
| PRJ06 | 5G MIMO ANTENNA DESIGN | Prof. Dr. Cengiz Özçaim | 2 Students (1 Team) | | | | | | |
| PRJ07 | Visional Theremin | Assoc. Prof. Dr. Emin Germen | 3 Students (1 Team) | Deniz Özalp | Berkay Sakarya | | Gülsüm Seçil Şermet | | |
| PRJ08 | Let's open the doors by phone | Assoc. Prof. Dr. Emin Germen | 4 Students (1 Team) | Ömer Faruk Cebeciöğlü | Alperen Bayarslan | Bartu Erboral | Rahmican Yıldız | | |
| PRJ09 | Development of an Automated Characterization System for On-Chip 2D Memristor and FET Devices using LabVIEW: Design, Implementation, and Analysis | Prof. Dr. Feridun Ay | 3 Students (1 Team) | Yusuf Güler | Fatih Bulut | | İbrahim Çağatay Çalışır | | |
| PRJ10 | Control Applications on Delay Systems | Assoc. Prof. Dr. Hakkı Ulaş Ünal | 3 Students (1 Team) | | | | | | |
| PRJ11 | AUTOMATED GUIDED VEHICLE DESIGN | Assoc. Prof. Dr. Hakkı Ulaş Ünal | 4 Students (1 Team) | Cenk Batuhan Tur | | Pınar Ertaş | Salih Taha Tuzköylü | Selinsu Çetinkaya | |
| PRJ12 | Wireless Charging for battery powered devices | Prof. Dr. Hanife Apaydın Özkan | 6 Students (2 Team) | Emre Serbest | Hilal Çakır | Ekrem Debre | Kifayet Karakan | Emir Yüce Onsoy | Hasan Hüseyin Gemici |
| PRJ13 | Osteoporosis Condition Monitoring and Classification from Bone X-ray Images | Assist. Prof. Dr. Mehmet Fidan | 3 Students (1 Team) | | | | | | |
| PRJ14 | Emotion Recognition from Voice | Assist. Prof. Dr. Mehmet Fidan | 3 Students (1 Team) | Habibullah Ahmadi | | Mehmet Ali Okyay | | Fourkan Bodour Memet | |
| PRJ15 | Modelling a 2D Memristor and Memtransistor | Prof. Dr. Nihan Kosku Perkgöz | 3 Students (1 Team) | Sefa Kaya | | | | | |
| PRJ16 | Demonstration a Smart Greenhouse Prototype based onArtificial Intelligence | Prof. Dr. Nihan Kosku Perkgöz | 3 Students (1 Team) | Nefise Ezgi Özer | | Emre Apak | | Numan Horoz | |
| PRJ17 | Indoor navigation using LIDAR | Prof. Dr. Nuray At | 3 Students (1 Team) | Onat Bulut | Beytullah Mikail Aktaş | | Buğra Umut Şahin | | |
| PRJ18 | Your Eyes Are The Mirror of Your Heart | Assist. Prof. Dr. Onur Kılınc | 3 Students (1 Team) | Uğur Siyah | | Tunser Özer | | Ferhat Çelebi | |
| PRJ19 | Prediction of Remaining Useful Life (RUL) of Industrial Devices | Assist. Prof. Dr. Onur Kılınc | 3 Students (1 Team) | Berkay Işıtan | | Mert Can Kabakcı | | Amirreza Naseri | |
| PRJ20 | Road surface defect detection | Prof. Dr. Ömer Nezih Gerek | 3 Students (1 Team) | Taha Kerem Taşcı | | Asaf Murat Özdemir | | Onat Şenel | |
| PRJ21 | Traffic Surveillance and Optimization using Camera-basedTraffic Scenario Generation with GAN | Prof. Dr. Ömer Nezih Gerek | 3 Students (1 Team) | Kağan Köse | | Bilgin Burak Öztoprak | | Veysel Karani Yanpala | |
| PRJ22 | Vibration Isolation for H-type Drone | Assist. Prof. Dr. Semiha Türkay | 3 Students (1 Team) | Mustafa Sabri Turaç | | | | | |
| PRJ23 | Parametric Interface Design and Test Methodology for an Unmanned Air Vehicles (UAV) | Assist. Prof. Dr. Semiha Türkay | 3 Students (1 Team) | Ayberk Ay | | Kerem Serim | | Baise Nur Kaymak | |
| PRJ24 | Design and Implementation of Virtual Electrical Machinery Laboratory | Assist. Prof. Dr. Şener Ağalar | 4 Students (1 Team) | Seda Manavcı | | Erkan Kaya | Kadir Ece | Fikri Arda Dulkerim | |
| PRJ25 | SoH Estimation of A Battery Pack with passive balancing topology. | Assist. Prof. Dr. Sıtkı Güner | 3 Students (1 Team) | Onur Şimşek | | Hasan Bora Aydan | | Cemalettin Kılıç | |
| PRJ26 | Development of a digital twin for smart green houses andenergy optimization | Res. Assist. Dr.Öğuzkağan Alıç | 3 Students (1 Team) | Batın Acar | | Halil İbrahim Eroğlu | | Atakan Tutuğ | |
| PRJ27 | Modulation Recognition Using Software Defined Radios | Assist. Prof. Dr. Can Uysal | 3 Students (1 Team) | Mertkan Karakaya | | Elif Karakaş | | Asuf Söker | |
| PRJ28 | AUV (Autonomous Underwater Vehicle) | Assist. Prof. Dr. H. Ersin Erol | 3 Students (1 Team) | Doğan Utku Özyiğit | | Doğan Serin | | Muhammed Berkay Yılmaz | |