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2023-2-TR01-KA210-VET-000180148 Project Module Videos

## MODULE-1 POWER CONVERTER SYSTEMS IN ELECTRIC VEHICLES (MODÜL-1 ELEKTRİKLİ ARAÇLARDA GÜÇ DÖNÜŞTÜRÜCÜ SİSTEMLER)

| S. No. | Video Name EN_TR  | YouTube Link  |
|--------|---|---|
| 1      | Elektrikli Araçlarda Güç Dönüştürücülerin Rolü ve Önemi       | <a href="https://youtu.be/jn262c0YI8A">https://youtu.be/jn262c0YI8A</a> |
|        | Role and Importance of Power Converters in Electric Vehicles  | <a href="https://youtu.be/zjWw3MNkITo">https://youtu.be/zjWw3MNkITo</a> |
| 2      | Yarım Dalga Doğrultma Devresi                                 | <a href="https://youtu.be/6RGIBTY2WJM">https://youtu.be/6RGIBTY2WJM</a> |
|        | Half-Wave Rectifier Circuit                                   |   |
| 3      | Köprü Tipi Tam Dalga Doğrultma Devresi                        | <a href="https://youtu.be/dCKImFLTKTY">https://youtu.be/dCKImFLTKTY</a> |
|        | Bridge-Type Full-Wave Rectifier Circuit                       | <a href="https://youtu.be/RMGF35myM8w">https://youtu.be/RMGF35myM8w</a> |
| 4      | Üç Faz Tam Dalga Doğrultma İşlemi                             | <a href="https://youtu.be/qfnNbvJvZk4">https://youtu.be/qfnNbvJvZk4</a> |
|        | Three-Phase Full-Wave Rectification Process                   |   |
| 5      | AC-DC Dönüştürücüler ve Araç Şarj Sistemleri                  | <a href="https://youtu.be/BGW8fve9XMg">https://youtu.be/BGW8fve9XMg</a> |
|        | AC-DC Converters and Vehicle Charging Systems                 | <a href="https://youtu.be/EL2jn8_V_7Y">https://youtu.be/EL2jn8_V_7Y</a> |
| 6      | DC-AC Dönüştürücüler ve Motor Sürücü Sistemleri               | <a href="https://youtu.be/01QGZ0D_5Mo">https://youtu.be/01QGZ0D_5Mo</a> |
|        | DC-AC Converters and Motor Drive Systems                      | <a href="https://youtu.be/lufz1nuULoU">https://youtu.be/lufz1nuULoU</a> |
| 7      | Rejeneratif Frenleme ve Enerji Geri Kazanımı                  | <a href="https://youtu.be/M5g_XF2el_k">https://youtu.be/M5g_XF2el_k</a> |
|        | Regenerative Braking and Energy Recovery                      | <a href="https://youtu.be/smb7DNQg_60">https://youtu.be/smb7DNQg_60</a> |
| 8      | DC-DC Dönüştürücüler: Buck, Boost ve Buck-Boost Uygulamaları  | <a href="https://youtu.be/0nfQLwO6p94">https://youtu.be/0nfQLwO6p94</a> |
|        | DC-DC Converters: Buck, Boost and Buck-Boost Applications     | <a href="https://youtu.be/YABg13gjPQE">https://youtu.be/YABg13gjPQE</a> |
| 9      | Güç Dönüştürücülerde Verimlilik, Isı Yönetimi ve Güvenlik     | <a href="https://youtu.be/jTRwQJ0k3HE">https://youtu.be/jTRwQJ0k3HE</a> |
|        | Efficiency, Thermal Management and Safety in Power Converters | <a href="https://youtu.be/9j_IMIR2ooA">https://youtu.be/9j_IMIR2ooA</a> |

## MODULE-2 EV ELECTRIC MOTORS AND DRIVE SYSTEMS (MODÜL-2 EV ELEKTRİK MOTORLARI VE SÜRÜCÜ SİSTEMLERİ)

| S. No. | Video Name EN_TR  | YouTube Link  |
|--------|---|---|
| 1      | Elektromanyetizma ve Elektrik Motorlarının Temel İlkeleri       | <a href="https://youtu.be/b88o37kbmyA">https://youtu.be/b88o37kbmyA</a> |
|        | Electromagnetism and Fundamental Principles of Electric Motors  | <a href="https://youtu.be/HBKBZwPzyc0">https://youtu.be/HBKBZwPzyc0</a> |
| 2      | Araçlarda Kullanılan Motorlar ve Çalışma Prensipleri            | <a href="https://youtu.be/1pmZgyZRdiY">https://youtu.be/1pmZgyZRdiY</a> |
|        | Electric Motors Used in Vehicles and Their Operating Principles | <a href="https://youtu.be/yOPT6MaL8Fs">https://youtu.be/yOPT6MaL8Fs</a> |
| 3      | Asenkron Motorların Yapısı ve Temel Bileşenleri                 | <a href="https://youtu.be/axmSr_GHQZ8">https://youtu.be/axmSr_GHQZ8</a> |
|        | Structure and Main Components of Asynchronous Motors            | <a href="https://youtu.be/CW4kE3pDIPU">https://youtu.be/CW4kE3pDIPU</a> |
| 4      | Döner Manyetik Alan ve Asenkron Motorun Çalışması               | <a href="https://youtu.be/u50KO8uacNA">https://youtu.be/u50KO8uacNA</a> |
|        | Rotating Magnetic Field and Operation of Asynchronous Motors    | <a href="https://youtu.be/NCYjOwDnAll">https://youtu.be/NCYjOwDnAll</a> |
| 5      | Relüktans Motorların Çeşitleri ve Çalışma Prensipleri           | <a href="https://youtu.be/T4UczmRw7OM">https://youtu.be/T4UczmRw7OM</a> |
|        | Types of Reluctance Motors and Operating Principles             | <a href="https://youtu.be/oNGXXycRe6E">https://youtu.be/oNGXXycRe6E</a> |
| 6      | Senkron Motorların Yapısı ve Parçaları                          | <a href="https://youtu.be/Hk3ngBBCoA0">https://youtu.be/Hk3ngBBCoA0</a> |
|        | Structure and Components of Synchronous Motors                  | <a href="https://youtu.be/YnhYe3Rfq70">https://youtu.be/YnhYe3Rfq70</a> |
| 7      | Senkron Motorların Çalışma Prensipleri                          | <a href="https://youtu.be/pkDJs0y3-0Q">https://youtu.be/pkDJs0y3-0Q</a> |
|        | Operating Principle of Synchronous Motors                       | <a href="https://youtu.be/_r9oHidfh_s">https://youtu.be/_r9oHidfh_s</a> |
| 8      | Tekerlek İçi Motorların Tarihçesi, Yapısı ve Çeşitleri          | <a href="https://youtu.be/ceacVHV2rkM">https://youtu.be/ceacVHV2rkM</a> |
|        | History, Structure and Types of In-Wheel Motors                 | <a href="https://youtu.be/PlcujPiL3fM">https://youtu.be/PlcujPiL3fM</a> |
| 9      | Senkron Jeneratörler ve Rejeneratif Frenleme                    | <a href="https://youtu.be/1zOOKAxtYI">https://youtu.be/1zOOKAxtYI</a>   |
|        | Synchronous Generators and Regenerative Braking                 | <a href="https://youtu.be/PQB0MIr0JS4">https://youtu.be/PQB0MIr0JS4</a> |





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**MODULE-3 WORK SAFETY AND PERSONAL PROTECTIVE EQUIPMENT  
APPLICATIONS IN ELECTRIC VEHICLES  
(MODÜL-3 ELEKTRİKLİ ARAÇLARDA İŞ GÜVENLİĞİ VE KİŞİSEL KORUYUCU  
DONANIM UYGULAMALARI)**

| S. No. | Video Name EN_TR  | YouTube Link  |
|--------|---|---|
| 1      | EV Kullanılan Kişisel Koruyucu Donanımlar                     | <a href="https://youtu.be/pBXko25OeSM">https://youtu.be/pBXko25OeSM</a> |
|        | Personal Protective Equipment (PPE) Used in Electric Vehicles |   |
| 2      | Elektrikli Araçlarda İşletme Saha Düzeni ve Güvenliği         | <a href="https://youtu.be/qv9xnPe4prs">https://youtu.be/qv9xnPe4prs</a> |
|        | Workshop Layout and Safety in Electric Vehicles               |   |
| 3      | İş Sağlığı ve Güvenliği – Güvenlik Kültürü                    | <a href="https://youtu.be/C6JNictsHdE">https://youtu.be/C6JNictsHdE</a> |
|        | Occupational Health and Safety – Safety Culture               |   |
| 4      | Elektrikli Araçlarda Bakım Onarım Öncesi İSG                  | <a href="https://youtu.be/8Vkwdmxv54g">https://youtu.be/8Vkwdmxv54g</a> |
|        | OHS Procedures Before EV Maintenance and Repair               |   |
| 5      | Elektrikli Araçlarda Yüksek Gerilim İzolasyonu                | <a href="https://youtu.be/DyMaAmBYgEo">https://youtu.be/DyMaAmBYgEo</a> |
|        | High Voltage Isolation in Electric Vehicles                   |   |
| 6      | Elektrikli Araçlarda Yangına Karşın İSG Tedbirleri            | <a href="https://youtu.be/i78yH-Lziwc">https://youtu.be/i78yH-Lziwc</a> |
|        | OHS Measures Against Fire Hazards in Electric Vehicles        |   |
| 7      | Elektrikli Araçlarda Güvenlik İşaretleri                      | <a href="https://youtu.be/EJleG1aMRoo">https://youtu.be/EJleG1aMRoo</a> |
|        | Safety Signs in Electric Vehicles                             |   |
| 8      | Elektrikli Araçlarda Bakım Onarım Sonrası Atık Ayrıştırma     | <a href="https://youtu.be/03vQnoWQNCI">https://youtu.be/03vQnoWQNCI</a> |
|        | Waste Segregation After EV Maintenance and Repair             |   |

**MODULE-4 ELECTRIC VEHICLE MAINTENANCE AND REPAIR  
(MODÜL-4 ELEKTRİKLİ ARAÇLARDA BAKIM VE ONARIM)**

| S. No | Video Name EN_TR  | YouTube Link  |
|-------|---|---|
| 1     | Elektrikli Araç Teknolojilerine Genel Bakış   | <a href="https://youtu.be/BbIX6RvWff8">https://youtu.be/BbIX6RvWff8</a>               |
|       | Overview of Electric Vehicle Technologies   |  |
| 2     | Elektrikli Araçlar ile İçten Yanmalı Motorlu Araçların Periyodik Bakım Karşılaştırması            | <a href="https://youtu.be/X9h6pjifPts">https://youtu.be/X9h6pjifPts</a>               |
|       | Periodic Maintenance Comparison Between Electric Vehicles and Internal Combustion Engine Vehicles |  |
| 3     | Elektrikli Araçların Bakım Kontrollerinde İzlenecek Adımlar1                                      | <a href="https://youtu.be/r2zM_JMwWRI">https://youtu.be/r2zM_JMwWRI</a>               |
|       | Maintenance Inspection Procedures for Electric Vehicles 1   |  |
| 4     | Elektrikli Araçların Bakım Kontrollerinde İzlenecek Adımlar2                                      | <a href="https://youtu.be/29Dw7WcHORQ">https://youtu.be/29Dw7WcHORQ</a>               |
|       | Maintenance Inspection Procedures for Electric Vehicles2  |  |
| 5     | Elektrikli Araçlar için Risk Analiz Adımları  | <a href="https://youtu.be/svmjBVvwKEQ">https://youtu.be/svmjBVvwKEQ</a>               |
|       | Risk Analysis Steps for Electric Vehicles   |  |
| 6     | Kişisel Koruyucu Donanımlar - KKD   | <a href="https://youtu.be/pBXko25OeSM">https://youtu.be/pBXko25OeSM</a>               |
|       | Personal Protective Equipment (PPE)   |  |
| 7     | Elektrikli Araçlarda Çalışacak Personeller için İSG Eğitimi                                       | <a href="https://youtu.be/H5iHp64PFxY">https://youtu.be/H5iHp64PFxY</a>               |
|       | OHS Training for Personnel Working on Electric Vehicles   |  |

