

## İSTANBUL TOPKAPI ÜNİVERSİTESİ

## Elektrik-Elektronik Mühendisliği (Tezli) (İngilizce) Programı (2024-2025)

| 1. Yarıyıl |  |     |   |   |    |      |
|------------|--|-----|---|---|----|------|
| Kod        | Ders Adı   | Z/S | T | U | K  | AKTS |
| EEE501     | Mathematical Methods in Electrical-Electronics Engineering | Z   | 3 | 0 | 3  | 6    |
| EEE590     | Scientific Research Techniques and Publication Ethics      | Z   | 2 | 1 | 3  | 6    |
|            | EEE(Tezli) (ING) Program Elective Course 3                 | S   |   |   | 3  | 6    |
|            | EEE(Tezli) (ING) Program Elective Course 2                 | S   |   |   | 3  | 6    |
|            | EEE(Tezli) (ING) Program Elective Course 1                 | S   |   |   | 3  | 6    |
| Toplam     |  |     |   |   | 15 | 30   |

| 2. Yarıyıl |  |     |   |   |   |      |
|------------|--|-----|---|---|---|------|
| Kod        | Ders Adı                                   | Z/S | T | U | K | AKTS |
| EEE591     | Seminar                                    | Z   | 0 | 2 | 0 | 12   |
|            | EEE(Tezli) (ING) Program Elective Course 6 | S   |   |   | 3 | 6    |
|            | EEE(Tezli) (ING) Program Elective Course 5 | S   |   |   | 3 | 6    |
|            | EEE(Tezli) (ING) Program Elective Course 4 | S   |   |   | 3 | 6    |
| Toplam     |  |     |   |   | 9 | 30   |

| 3. Yarıyıl |          |     |   |   |   |      |
|------------|----------|-----|---|---|---|------|
| Kod        | Ders Adı | Z/S | T | U | K | AKTS |
| EEE553     | Thesis   | Z   | 0 | 0 | 0 | 60   |
| Toplam     |          |     |   |   | 0 | 60   |

Toplam Kredi: 24

Toplam AKTS: 120

Toplam seçmeli ders AKTS: 36

Seçmeli derslerin toplama oranı: %30

| Kod | EEE(Tezli) (ING) | T | U | K | AKTS |
|-----|------------------|---|---|---|------|
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| Kod | EEE(Tezli) (ING) | T | U | K | AKTS |
|-----|------------------|---|---|---|------|
|-----|------------------|---|---|---|------|

|        | Program Elective<br>Course 3   |   |   |   |      |
|--------|--|---|---|---|------|
| EEE502 | Machine Learning   | 3 | 0 | 3 | 6    |
| EEE503 | Deep Learning  | 3 | 0 | 3 | 6    |
| EEE504 | Design of Electrical<br>Grounding Systems  | 3 | 0 | 3 | 6    |
| EEE505 | Design of Lightning<br>Protection Systems  | 3 | 0 | 3 | 6    |
| EEE506 | Image Processing   | 3 | 0 | 3 | 6    |
| EEE507 | Power System<br>Planning   | 3 | 0 | 3 | 6    |
| EEE508 | Circuit Design Aided<br>Computer   | 3 | 0 | 3 | 6    |
| EEE509 | Artificial Neural<br>Networks and Fuzzy<br>Logic                                       | 3 | 0 | 3 | 6    |
| EEE510 | Measurement<br>Techniques of High<br>Voltage   | 3 | 0 | 3 | 6    |
| EEE511 | Solar Simulators for<br>Photovoltaic Panel<br>Tests                                    | 3 | 0 | 3 | 6    |
| EEE512 | LED Lighting<br>Technologies and<br>Applications                                       | 3 | 0 | 3 | 6    |
| EEE513 | Data Visualization   | 3 | 0 | 3 | 6    |
| EEE514 | Artificial Intelligent<br>Applications in the<br>Electrical-Electronics<br>Engineering | 3 | 0 | 3 | 6    |
| EEE515 | Advanced<br>Telecommunications<br>Techniques   | 3 | 0 | 3 | 6    |
| EEE516 | Harmonics in Power<br>Engineering  | 3 | 0 | 3 | 6    |
| EEE517 | Human Machine<br>Interaction   | 3 | 0 | 3 | 6    |
| EEE518 | Electrical-Electronics<br>Engineering<br>Applications with<br>Matlab                   | 3 | 0 | 3 | 6    |
| EEE554 | Solid State Electronics  | 3 | 0 | 3 | 6    |
| EEE555 | Metaheuristic<br>Algorithms  | 3 | 0 | 3 | 6    |
| Kod    | EEE(Tezli) (ING)<br>Program Elective<br>Course 1                                       | T | U | K | AKTS |
| EEE502 | Machine Learning   | 3 | 0 | 3 | 6    |
| EEE503 | Deep Learning  | 3 | 0 | 3 | 6    |

|        | Program Elective<br>Course 2  |   |   |   |      |
|--------|---|---|---|---|------|
| EEE502 | Machine Learning  | 3 | 0 | 3 | 6    |
| EEE503 | Deep Learning   | 3 | 0 | 3 | 6    |
| EEE504 | Design of Electrical<br>Grounding Systems   | 3 | 0 | 3 | 6    |
| EEE505 | Design of Lightning<br>Protection Systems   | 3 | 0 | 3 | 6    |
| EEE506 | Image Processing  | 3 | 0 | 3 | 6    |
| EEE507 | Power System<br>Planning  | 3 | 0 | 3 | 6    |
| EEE508 | Circuit Design Aided<br>Computer  | 3 | 0 | 3 | 6    |
| EEE509 | Artificial Neural<br>Networks and Fuzzy<br>Logic  | 3 | 0 | 3 | 6    |
| EEE510 | Measurement<br>Techniques of High<br>Voltage  | 3 | 0 | 3 | 6    |
| EEE511 | Solar Simulators for<br>Photovoltaic Panel<br>Tests                                     | 3 | 0 | 3 | 6    |
| EEE512 | LED Lighting<br>Technologies and<br>Applications  | 3 | 0 | 3 | 6    |
| EEE513 | Data Visualization  | 3 | 0 | 3 | 6    |
| EEE514 | Artificial Inteelligent<br>Applications in the<br>Electrical-Electronics<br>Engineering | 3 | 0 | 3 | 6    |
| EEE515 | Advanced<br>Telecommunications<br>Techniques  | 3 | 0 | 3 | 6    |
| EEE516 | Harmonics in Power<br>Engineering   | 3 | 0 | 3 | 6    |
| EEE517 | Human Machine<br>Interaction  | 3 | 0 | 3 | 6    |
| EEE518 | Electrical-Electronics<br>Engineering<br>Applications with<br>Matlab                    | 3 | 0 | 3 | 6    |
| EEE554 | Solid State Electronics   | 3 | 0 | 3 | 6    |
| EEE555 | Metaheuristic<br>Algorithms   | 3 | 0 | 3 | 6    |
| Kod    | EEE(Tezli) (ING)<br>Program Elective<br>Course 6  | T | U | K | AKTS |
| EEE502 | Machine Learning  | 3 | 0 | 3 | 6    |
| EEE503 | Deep Learning   | 3 | 0 | 3 | 6    |

|        |   |   |   |   |      |
|--------|---|---|---|---|------|
| EEE504 | Design of Electrical Grounding Systems  | 3 | 0 | 3 | 6    |
| EEE505 | Design of Lightning Protection Systems  | 3 | 0 | 3 | 6    |
| EEE506 | Image Processing  | 3 | 0 | 3 | 6    |
| EEE507 | Power System Planning   | 3 | 0 | 3 | 6    |
| EEE508 | Circuit Design Aided Computer   | 3 | 0 | 3 | 6    |
| EEE509 | Artificial Neural Networks and Fuzzy Logic                                    | 3 | 0 | 3 | 6    |
| EEE510 | Measurement Techniques of High Voltage  | 3 | 0 | 3 | 6    |
| EEE511 | Solar Simulators for Photovoltaic Panel Tests                                 | 3 | 0 | 3 | 6    |
| EEE512 | LED Lighting Technologies and Applications                                    | 3 | 0 | 3 | 6    |
| EEE513 | Data Visualization  | 3 | 0 | 3 | 6    |
| EEE514 | Artificial Intelligent Applications in the Electrical-Electronics Engineering | 3 | 0 | 3 | 6    |
| EEE515 | Advanced Telecommunications Techniques  | 3 | 0 | 3 | 6    |
| EEE516 | Harmonics in Power Engineering  | 3 | 0 | 3 | 6    |
| EEE517 | Human Machine Interaction   | 3 | 0 | 3 | 6    |
| EEE518 | Electrical-Electronics Engineering Applications with Matlab                   | 3 | 0 | 3 | 6    |
| EEE554 | Solid State Electronics   | 3 | 0 | 3 | 6    |
| EEE555 | Metaheuristic Algorithms  | 3 | 0 | 3 | 6    |
| Kod    | EEE(Tezli) (ING) Program Elective Course 5                                    | T | U | K | AKTS |
| EEE502 | Machine Learning  | 3 | 0 | 3 | 6    |
| EEE503 | Deep Learning   | 3 | 0 | 3 | 6    |
| EEE504 | Design of Electrical Grounding Systems  | 3 | 0 | 3 | 6    |
| EEE505 | Design of Lightning Protection Systems  | 3 | 0 | 3 | 6    |
| EEE506 | Image Processing  | 3 | 0 | 3 | 6    |
| EEE504 | Design of Electrical Grounding Systems  | 3 | 0 | 3 | 6    |
| EEE505 | Design of Lightning Protection Systems  | 3 | 0 | 3 | 6    |
| EEE506 | Image Processing  | 3 | 0 | 3 | 6    |
| EEE507 | Power System Planning   | 3 | 0 | 3 | 6    |
| EEE508 | Circuit Design Aided Computer   | 3 | 0 | 3 | 6    |
| EEE509 | Artificial Neural Networks and Fuzzy Logic                                    | 3 | 0 | 3 | 6    |
| EEE510 | Measurement Techniques of High Voltage  | 3 | 0 | 3 | 6    |
| EEE511 | Solar Simulators for Photovoltaic Panel Tests                                 | 3 | 0 | 3 | 6    |
| EEE512 | LED Lighting Technologies and Applications                                    | 3 | 0 | 3 | 6    |
| EEE513 | Data Visualization  | 3 | 0 | 3 | 6    |
| EEE514 | Artificial Intelligent Applications in the Electrical-Electronics Engineering | 3 | 0 | 3 | 6    |
| EEE515 | Advanced Telecommunications Techniques  | 3 | 0 | 3 | 6    |
| EEE516 | Harmonics in Power Engineering  | 3 | 0 | 3 | 6    |
| EEE517 | Human Machine Interaction   | 3 | 0 | 3 | 6    |
| EEE518 | Electrical-Electronics Engineering Applications with Matlab                   | 3 | 0 | 3 | 6    |
| EEE554 | Solid State Electronics   | 3 | 0 | 3 | 6    |
| EEE555 | Metaheuristic Algorithms  | 3 | 0 | 3 | 6    |
| Kod    | EEE(Tezli) (ING) Program Elective Course 4                                    | T | U | K | AKTS |
| EEE502 | Machine Learning  | 3 | 0 | 3 | 6    |
| EEE503 | Deep Learning   | 3 | 0 | 3 | 6    |
| EEE504 | Design of Electrical Grounding Systems  | 3 | 0 | 3 | 6    |
| EEE505 | Design of Lightning Protection Systems  | 3 | 0 | 3 | 6    |
| EEE506 | Image Processing  | 3 | 0 | 3 | 6    |

|        |   |   |   |   |   |
|--------|---|---|---|---|---|
| EEE506 | Image Processing  | 3 | 0 | 3 | 6 |
| EEE507 | Power System Planning   | 3 | 0 | 3 | 6 |
| EEE508 | Circuit Design Aided Computer   | 3 | 0 | 3 | 6 |
| EEE509 | Artificial Neural Networks and Fuzzy Logic                                    | 3 | 0 | 3 | 6 |
| EEE510 | Measurement Techniques of High Voltage  | 3 | 0 | 3 | 6 |
| EEE511 | Solar Simulators for Photovoltaic Panel Tests                                 | 3 | 0 | 3 | 6 |
| EEE512 | LED Lighting Technologies and Applications                                    | 3 | 0 | 3 | 6 |
| EEE513 | Data Visualization  | 3 | 0 | 3 | 6 |
| EEE514 | Artificial Intelligent Applications in the Electrical-Electronics Engineering | 3 | 0 | 3 | 6 |
| EEE515 | Advanced Telecommunications Techniques  | 3 | 0 | 3 | 6 |
| EEE516 | Harmonics in Power Engineering  | 3 | 0 | 3 | 6 |
| EEE517 | Human Machine Interaction   | 3 | 0 | 3 | 6 |
| EEE518 | Electrical-Electronics Engineering Applications with Matlab                   | 3 | 0 | 3 | 6 |
| EEE554 | Solid State Electronics   | 3 | 0 | 3 | 6 |
| EEE555 | Metaheuristic Algorithms  | 3 | 0 | 3 | 6 |

|        |   |   |   |   |   |
|--------|---|---|---|---|---|
| EEE506 | Image Processing  | 3 | 0 | 3 | 6 |
| EEE507 | Power System Planning   | 3 | 0 | 3 | 6 |
| EEE508 | Circuit Design Aided Computer   | 3 | 0 | 3 | 6 |
| EEE509 | Artificial Neural Networks and Fuzzy Logic                                    | 3 | 0 | 3 | 6 |
| EEE510 | Measurement Techniques of High Voltage  | 3 | 0 | 3 | 6 |
| EEE511 | Solar Simulators for Photovoltaic Panel Tests                                 | 3 | 0 | 3 | 6 |
| EEE512 | LED Lighting Technologies and Applications                                    | 3 | 0 | 3 | 6 |
| EEE513 | Data Visualization  | 3 | 0 | 3 | 6 |
| EEE514 | Artificial Intelligent Applications in the Electrical-Electronics Engineering | 3 | 0 | 3 | 6 |
| EEE515 | Advanced Telecommunications Techniques  | 3 | 0 | 3 | 6 |
| EEE516 | Harmonics in Power Engineering  | 3 | 0 | 3 | 6 |
| EEE517 | Human Machine Interaction   | 3 | 0 | 3 | 6 |
| EEE518 | Electrical-Electronics Engineering Applications with Matlab                   | 3 | 0 | 3 | 6 |
| EEE554 | Solid State Electronics   | 3 | 0 | 3 | 6 |
| EEE555 | Metaheuristic Algorithms  | 3 | 0 | 3 | 6 |