

T.C. KILIS 7 ARALIK UNIVERSITY VOCATIONAL HIGH SCHOOL ELECTRIC AND ENERGY DEPARTMENT
ELECTRIC PROGRAM
COURSE CATALOG (2021-2022)

FIRST YEAR

| Course Code | 1. CLASS 1. TERM (1. SEMESTER) | STATUS | T | A | C | ECTS | Course Code | 1. CLASS 2. TERM (2. SEMESTER) | STATUS | T | A | C | ECTS | |
|-------------|---|--------|---|-----------|----------|-----------|-------------|--------------------------------|--|-----|-----------|----------|-----------|-----------|
| 0102101 | The Principles Of Atatürk And History Of Revolution-I | (U) | Z | 2 | 0 | 2 | 2 | 0102102 | The Principles Of Atatürk And History Of Revolution-II | (U) | Z | 2 | 0 | 2 |
| 0103101 | English-I | (U) | Z | 3 | 0 | 3 | 3 | 0103102 | English-II | (U) | Z | 3 | 0 | 3 |
| 5301101 | Mathematics-I | | Z | 4 | 0 | 4 | 4 | 5301102 | Mathematics-II | | Z | 2 | 0 | 2 |
| 5301103 | Direct Current Circuits | | Z | 3 | 1 | 4 | 4 | 5301104 | Transformer And Direct Current Machineries | | Z | 3 | 1 | 4 |
| 5301105 | Technical Drawing | | Z | 2 | 1 | 3 | 3 | 5301106 | Alternating Current Circuits | | Z | 3 | 1 | 4 |
| 5301107 | Installation Entering | | Z | 3 | 1 | 4 | 4 | 5301108 | Basic Electronics | (U) | Z | 3 | 0 | 3 |
| 5301109 | Measurement Technique | | Z | 3 | 1 | 4 | 4 | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | Industry-Based Learning | | Z | | | 8 | |
| | COMPULSORY COURSES | | | 20 | 4 | 24 | 24 | COMPULSORY COURSES | | | 16 | 2 | 18 | 26 |
| | ELECTIVE COURSES | | | | | | 6 | ELECTIVE COURSES | | | | | 4 | |
| | SEMESTER TOTAL | | | | | | 30 | SEMESTER TOTAL | | | | | 30 | |
| | ELECTIVE COURSES | | | | | | | ELECTIVE COURSES | | | | | | |
| 0104101 | Physical Education-I | | S | 1 | 1 | 0 | 2 | 0104102 | Physical Education-II | | S | 1 | 1 | 0 |
| 0105101 | Music-I | | S | 1 | 1 | 0 | 2 | 0105102 | Music-II | | S | 1 | 1 | 0 |
| 5301010 | Energy Management | (U) | S | 2 | 0 | 2 | 2 | 5301020 | Special Installations | (U) | S | 1 | 1 | 2 |
| 5301011 | Occupational Health And Safety | (U) | S | 2 | 0 | 2 | 2 | 5301021 | Computer-Aided Design | | S | 2 | 0 | 2 |
| 5301012 | Professional Ethic | (U) | S | 2 | 0 | 2 | 2 | 5301022 | Failure Analysis | (U) | S | 1 | 1 | 2 |
| 5301013 | Office Softwares | (U) | S | 1 | 1 | 2 | 2 | 5301023 | Smart Grids | (U) | S | 2 | 0 | 2 |
| 5301014 | Electric Energy Power Plants | (U) | Z | 2 | 0 | 2 | 2 | 5301024 | Lighting Technique | (U) | S | 2 | 0 | 2 |
| | | | | | | | | | | | | | | |
| | | | | | | | | Common Elective Course* | | S | | | | |

SECOND YEAR

| Course Code | 2. CLASS 1. TERM (3. SEMESTER) | STATUS | T | A | C | ECTS | Course Code | 2. CLASS 2. TERM (4. SEMESTER) | STATUS | T | A | C | ECTS | |
|-------------|--|--------|---|-----------|----------|-----------|-------------|--------------------------------|--|-----|-----------|----------|-----------|-----------|
| 0101101 | Turkish Language-I | (U) | Z | 2 | 0 | 2 | 2 | 0101102 | Turkish Language-II | (U) | Z | 2 | 0 | 2 |
| 0112100 | Digital Literacy | (U) | Z | 2 | 0 | 0 | 3 | 5301202 | Winding Technique | | Z | 3 | 1 | 4 |
| 5301201 | Asynchronous And Synchronous Machinery | | Z | 3 | 1 | 4 | 4 | 5301204 | System Analysis And Design-II | | Z | 2 | 0 | 2 |
| 5301203 | System Analysis And Design-I | | Z | 2 | 0 | 2 | 3 | 5301206 | Computer Aided Project-II | | Z | 2 | 1 | 3 |
| 5301205 | Computer Aided Project-I | | Z | 2 | 1 | 3 | 4 | 5301208 | Electromechanical Control Systems | | Z | 3 | 1 | 4 |
| 5301207 | Digital Electronics | (U) | Z | 3 | 1 | 4 | 4 | 5301210 | Transmission And Distribution Of Electric Energy | (U) | Z | 3 | 1 | 4 |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | COMPULSORY COURSES | | | 14 | 3 | 15 | 20 | COMPULSORY COURSES | | | 15 | 4 | 19 | 20 |
| | ELECTIVE COURSES | | | | | | 10 | ELECTIVE COURSES | | | | | 10 | |
| | SEMESTER TOTAL | | | | | | 30 | SEMESTER TOTAL | | | | | 30 | |
| | ELECTIVE COURSES | | | | | | | ELECTIVE COURSES | | | | | | |
| 5301030 | Electronic Circuit Design | | S | 2 | 1 | 3 | 3 | 5301040 | Panel Design And Montage | (U) | S | 2 | 1 | 3 |
| 5301031 | Power Electronics-I | | S | 3 | 0 | 3 | 3 | 5301041 | Quality Assurance And Standards | (U) | S | 2 | 0 | 2 |
| 5301032 | Vocational Foreign Language | (U) | S | 2 | 0 | 2 | 2 | 5301042 | Programmable Controllers | | S | 2 | 1 | 3 |
| 5301033 | Sensors And Transducers | (U) | S | 1 | 1 | 2 | 2 | 5301043 | Power Electronics-II | | S | 3 | 0 | 3 |
| 5301034 | Home Appliances | (U) | S | 3 | 0 | 3 | 3 | 5301044 | Alternating Energy Sources | (U) | S | 2 | 0 | 2 |
| 5301035 | Cooling Techniques | (U) | S | 2 | 0 | 2 | 2 | 5301045 | Custom Designed Motors | | S | 2 | 0 | 2 |
| 5301036 | Contract Discovery and Planning | (U) | S | 3 | 0 | 3 | 3 | 5301046 | Professional Technique Methods | (U) | S | 2 | 0 | 2 |
| 5301037 | Research Methods And Techniques | (U) | S | 2 | 0 | 2 | 2 | 5301047 | Communication | (U) | S | 2 | 0 | 2 |
| | | | | | | | | 5301048 | Scada Systems | (U) | S | 2 | 1 | 3 |
| | | | | | | | | | | | | | | |
| | Common Elective Course* | | S | | | | | Common Elective Course* | | S | | | | |

| | | |
|--------------------------------|-----------------|-----------------|
| COMPULSORY COURSES | 82 ECTS | (%68.3) |
| ELECTIVE COURSES | 30 ECTS | (%25.0) |
| INDUSTRY-BASED LEARNING | 8 ECTS | (%6.7) |
| TOTAL | 120 ECTS | (%100.0) |

*It is a course selected from the Rectorate Common Elective Courses pool. In order to graduate, the student must take at least **one** and at most **two** common elective courses. The common elective course can be taken in any semester except the first semester. Since the common elective course to be taken will be counted as the departmental elective course for that semester, the course with the appropriate ECTS must be chosen.

** Courses marked with (U) will be given as distance online education.