

**BALIKESİR ÜNİVERSİTESİ**  
**BALIKESİR MESLEK YÜKSEKOKULU**  
**ELEKTRONİK VE OTOMASYON BÖLÜMÜ**  
**KONTROL VE OTOMASYON TEKNOLOJİSİ PROGRAMI**  
**2025-2026 EĞİTİM-ÖĞRETİM YILI DERS PLANI**

| 1. SINIF 1. YARIYIL |                                          |          |    |   |   |      |      | 1. SINIF 2. YARIYIL |                                       |          |    |   |   |     |      |
|---------------------|------------------------------------------|----------|----|---|---|------|------|---------------------|---------------------------------------|----------|----|---|---|-----|------|
| DERS KODU           | DERSİN ADI                               | Kategori | T  | U | L | K    | AKTS | DERS KODU           | DERSİN ADI                            | Kategori | T  | U | L | K   | AKTS |
| ENO1101             | Matematik-1                              | Z        | 2  | 1 |   | 2,5  | 3    | ENO1201             | Matematik-2                           | Z        | 2  | 1 |   | 2,5 | 3    |
| KON1101             | Mekanizma Tekniği                        | M        | 2  | 1 |   | 2,5  | 3    | ENO1202             | Alternatif Akım Devreleri             | M        | 3  | 1 |   | 3,5 | 4    |
| ENO1102             | Doğru Akım Devreleri                     | M        | 3  | 1 |   | 3,5  | 4    | ENO1203             | Sayısal Tasarım                       | M        | 3  | 1 |   | 3,5 | 4    |
| ENO1133             | Sayısal Elektronik                       | M        | 3  | 1 |   | 3,5  | 3    | ENO1204             | Elektronik-1                          | M        | 3  | 1 |   | 3,5 | 4    |
| ENO1134             | Elektronik Ölçme Tekniği ve İş Güvenliği | M        | 3  | 1 |   | 3,5  | 3    | ENO1205             | Bilgisayar Destekli Tasarım-1 (CAD-1) | M        | 2  | 0 |   | 2   | 3    |
| ENO1106             | İş Sağlığı ve Güvenliği                  | M        | 2  | 0 |   | 2    | 2    | KRY1201             | Kariyer Planlama                      | Z        | 1  | 0 |   | 1   | 2    |
| KON1102             | Yenilenebilir Enerji Kaynakları          | M        | 2  | 0 |   | 2    | 2    | STJ1203             | Staj                                  | Z        | 0  | 0 |   | 0   | 8    |
|                     |                                          |          |    |   |   |      |      |                     |                                       |          |    |   |   |     |      |
| TOPLAM              |                                          |          | 17 | 5 |   | 19,5 | 20   | TOPLAM              |                                       |          | 14 | 4 |   | 16  | 28   |

|              |                                      |   |    |   |  |      |    |              |                                      |   |    |   |  |    |    |
|--------------|--------------------------------------|---|----|---|--|------|----|--------------|--------------------------------------|---|----|---|--|----|----|
| AIT1101      | Atatürk İlkeleri ve İnkılap Tarihi-1 | Z | 2  | 0 |  | 2    | 2  | AIT1201      | Atatürk İlkeleri ve İnkılap Tarihi-2 | Z | 2  | 0 |  | 2  | 2  |
| TDI1101      | Türk Dili-1                          | Z | 2  | 0 |  | 2    | 2  | TDI1201      | Türk Dili-2                          | Z | 2  | 0 |  | 2  | 2  |
| YDI1101      | Yabancı Dil (İngilizce)-1            | Z | 2  | 0 |  | 2    | 2  | YDI1201      | Yabancı Dil (İngilizce)-2            | Z | 2  | 0 |  | 2  | 2  |
| GENEL TOPLAM |                                      |   | 23 | 5 |  | 25,5 | 26 | GENEL TOPLAM |                                      |   | 20 | 4 |  | 22 | 34 |

| 2. SINIF 1. YARIYIL |                                       |          |    |   |   |     |      | 2. SINIF 2. YARIYIL |                                 |          |    |   |   |      |      |
|---------------------|---------------------------------------|----------|----|---|---|-----|------|---------------------|---------------------------------|----------|----|---|---|------|------|
| DERS KODU           | DERSİN ADI                            | Kategori | T  | U | L | K   | AKTS | DERS KODU           | DERSİN ADI                      | Kategori | T  | U | L | K    | AKTS |
| KON2102             | Kontrol Sistemleri                    | M        | 2  | 1 |   | 2,5 | 4    | KON2204             | Temel Hidrolik                  | M        | 2  | 1 |   | 2,5  | 3    |
| KON2104             | Temel Pnömatik                        | M        | 2  | 1 |   | 2,5 | 3    | KON2207             | Scada Sistemleri                | M        | 2  | 1 |   | 2,5  | 3    |
| KON2105             | Mikrodenetleyiciler                   | M        | 2  | 1 |   | 2,5 | 3    | KON2205             | Programlanabilir Denetleyiciler | M        | 2  | 1 |   | 2,5  | 3    |
| ENO2105             | Bilgisayar Destekli Tasarım-2 (CAD 2) | M        | 1  | 1 |   | 1,5 | 3    | KON2202             | Sensörler ve Transduserler      | M        | 2  | 1 |   | 2,5  | 3    |
| KON2101             | Sistem Analizi ve Tasarımı-1          | M        | 0  | 2 |   | 1   | 2    | KON2201             | Sistem Analizi ve Tasarımı-2    | M        | 0  | 2 |   | 1    | 3    |
|                     | SEÇMELİ DERS-1                        | S        | 2  | 1 |   | 2,5 | 5    |                     | SEÇMELİ DERS-1                  | S        | 2  | 1 |   | 2,5  | 5    |
|                     | SEÇMELİ DERS-2                        | S        | 2  | 1 |   | 2,5 | 5    |                     | SEÇMELİ DERS-2                  | S        | 2  | 1 |   | 2,5  | 5    |
|                     | SEÇMELİ DERS-3                        | S        | 2  | 1 |   | 2,5 | 5    |                     | SEÇMELİ DERS-3                  | S        | 2  | 1 |   | 2,5  | 5    |
| GENEL TOPLAM        |                                       |          | 13 | 9 |   | 18  | 30   | GENEL TOPLAM        |                                 |          | 14 | 9 |   | 18,5 | 30   |

| 2. SINIF 1. YARIYIL SEÇMELİ DERSLERİ |                                              |   |   |   |  |     |   | 2. SINIF 2. YARIYIL SEÇMELİ DERSLERİ |                             |   |   |   |  |     |   |
|--------------------------------------|----------------------------------------------|---|---|---|--|-----|---|--------------------------------------|-----------------------------|---|---|---|--|-----|---|
| KON2103                              | Süreç Ölçümleri                              | S | 2 | 1 |  | 2,5 | 5 | KON2203                              | Süreç Ölçümleri-Laboratuvar | S | 2 | 1 |  | 2,5 | 5 |
| KON2107                              | Endüstriyel Ağlar                            | S | 2 | 1 |  | 2,5 | 5 | KON2206                              | Güç Elektroniği             | S | 2 | 1 |  | 2,5 | 5 |
| KON2106                              | Elektrik Mot.Sürücüler ve Kumanda Sistemleri | S | 2 | 1 |  | 2,5 | 5 | KON2208                              | Bilgisayar Programlama      | S | 2 | 1 |  | 2,5 | 5 |
| KON2108                              | Bulanık Mantık                               | S | 2 | 1 |  | 2,5 | 5 | KON2209                              | Nümerik Kontrol Teknikleri  | S | 2 | 1 |  | 2,5 | 5 |
| KON2109                              | Bina Yönetim Sistemleri                      | S | 2 | 1 |  | 2,5 | 5 | KON2210                              | Endüstriyel Robotlar        | S | 2 | 1 |  | 2,5 | 5 |
| KON2110                              | İklimlendirme ve Soğutma Teknolojileri       | S | 2 | 1 |  | 2,5 | 5 | KON2211                              | Aydınlatma Otomasyonu       | S | 2 | 1 |  | 2,5 | 5 |

**BALIKESIR UNIVERSITY**  
**BALIKESIR VOCATIONAL SCHOOL**  
**DEPARTMENT OF ELECTRONICS AND AUTOMATION**  
**CONTROL AND AUTOMATION TECHNOLOGY PROGRAM**  
**2025-2026 ACADEMIC YEAR COURSE PLAN**

| 1st YEAR 1st SEMESTER |                                                  |                 |           |          |          |             |             | 1st YEAR 2nd SEMESTER |                                                   |                 |           |          |          |           |             |
|-----------------------|--------------------------------------------------|-----------------|-----------|----------|----------|-------------|-------------|-----------------------|---------------------------------------------------|-----------------|-----------|----------|----------|-----------|-------------|
| <u>COURSE CODE</u>    | <u>COURSE</u>                                    | <u>Category</u> | <u>I</u>  | <u>A</u> | <u>L</u> | <u>C</u>    | <u>ECTS</u> | <u>COURSE CODE</u>    | <u>COURSE</u>                                     | <u>Category</u> | <u>I</u>  | <u>A</u> | <u>L</u> | <u>C</u>  | <u>ECTS</u> |
| ENO1101               | Mathematics-I                                    | C               | 2         | 1        |          | 2,5         | 3           | ENO1201               | Mathematics-II                                    | C               | 2         | 1        |          | 2,5       | 3           |
| KON1101               | Mechanism Technique                              | V               | 2         | 1        |          | 2,5         | 3           | ENO1202               | AC Circuit Analysis                               | V               | 3         | 1        |          | 3,5       | 4           |
| ENO1102               | DC Circuit Analysis                              | V               | 3         | 1        |          | 3,5         | 4           | ENO1203               | Digital Design                                    | V               | 3         | 1        |          | 3,5       | 4           |
| ENO1133               | Digital Electronics                              | V               | 3         | 1        |          | 3,5         | 3           | ENO1204               | Electronics-I                                     | V               | 3         | 1        |          | 3,5       | 4           |
| ENO1134               | Electronic Measuring Technique and Safety        | V               | 3         | 1        |          | 3,5         | 3           | ENO1205               | Computer Aided Design-I (CAD-I)                   | V               | 2         | 0        |          | 2         | 3           |
| ENO1106               | Occupational Health and Safety                   | V               | 2         | 0        |          | 2           | 2           | ENO1206               | Career Planning                                   | V               | 1         | 0        |          | 1         | 2           |
| KON1102               | Renewable Energy Sources                         | V               | 2         | 0        |          | 2           | 2           | STJ1203               | Internship                                        | C               | 0         | 0        |          | 0         | 8           |
|                       |                                                  |                 |           |          |          |             |             |                       |                                                   |                 |           |          |          |           |             |
| <b>TOTAL</b>          |                                                  |                 | <b>17</b> | <b>5</b> |          | <b>19,5</b> | <b>20</b>   | <b>TOTAL</b>          |                                                   |                 | <b>14</b> | <b>4</b> |          | <b>16</b> | <b>28</b>   |
|                       |                                                  |                 |           |          |          |             |             |                       |                                                   |                 |           |          |          |           |             |
| AIT1101               | Ataturk's Principals and History of Revolution-I | C               | 2         | 0        |          | 2           | 2           | AIT1201               | Ataturk's Principals and History of Revolution-II | C               | 2         | 0        |          | 2         | 2           |
| TDI1101               | Turkish Language-I                               | C               | 2         | 0        |          | 2           | 2           | TDI1101               | Turkish Language-II                               | C               | 2         | 0        |          | 2         | 2           |
| YDI1101               | English-I                                        | C               | 2         | 0        |          | 2           | 2           | YDI1101               | English-II                                        | C               | 2         | 0        |          | 2         | 2           |
| <b>TOTAL CREDİTS</b>  |                                                  |                 | <b>23</b> | <b>5</b> |          | <b>25,5</b> | <b>26</b>   | <b>TOTAL CREDİTS</b>  |                                                   |                 | <b>20</b> | <b>4</b> |          | <b>22</b> | <b>34</b>   |

| 2nd YEAR 1st SEMESTER                  |                                           |                 |           |          |          |             |             | 2nd YEAR 2nd SEMESTER                  |                                 |                 |           |          |          |             |             |
|----------------------------------------|-------------------------------------------|-----------------|-----------|----------|----------|-------------|-------------|----------------------------------------|---------------------------------|-----------------|-----------|----------|----------|-------------|-------------|
| <u>COURSE CODE</u>                     | <u>COURSE</u>                             | <u>Category</u> | <u>I</u>  | <u>A</u> | <u>L</u> | <u>C</u>    | <u>ECTS</u> | <u>COURSE CODE</u>                     | <u>COURSE</u>                   | <u>Category</u> | <u>I</u>  | <u>A</u> | <u>L</u> | <u>C</u>    | <u>ECTS</u> |
| KON2102                                | Control Systems                           | V               | 2         | 1        |          | 2,5         | 4           | KON2204                                | Basic Hydraulics                | V               | 2         | 1        |          | 2,5         | 3           |
| KON2104                                | Basic Pneumatics                          | V               | 2         | 1        |          | 2,5         | 3           | KON2207                                | Scada Systems                   | V               | 2         | 1        |          | 2,5         | 3           |
| KNO2105                                | Microcontrollers                          | V               | 2         | 1        |          | 2,5         | 3           | KON2205                                | Programmable Controllers        | V               | 2         | 1        |          | 2,5         | 3           |
| ENO2105                                | Computer Aided Design-II (CAD-II)         | V               | 1         | 1        |          | 1,5         | 3           | KON2202                                | Sensors And Transducers         | V               | 2         | 1        |          | 2,5         | 3           |
| KON2101                                | System Analysis And Design-I              | V               | 0         | 2        |          | 1           | 2           | KON2201                                | System Analysis And Design-II   | V               | 0         | 2        |          | 1           | 3           |
|                                        | ELECTIVE COURSES-1                        | O               | 2         | 1        |          | 2,5         | 5           |                                        | ELECTIVE COURSES-1              | O               | 2         | 1        |          | 2,5         | 5           |
|                                        | ELECTIVE COURSES-2                        | O               | 2         | 1        |          | 2,5         | 5           |                                        | ELECTIVE COURSES-2              | O               | 2         | 1        |          | 2,5         | 5           |
|                                        | ELECTIVE COURSES-3                        | O               | 2         | 1        |          | 2,5         | 5           |                                        | ELECTIVE COURSES-3              | O               | 2         | 1        |          | 2,5         | 5           |
| <b>TOTAL CREDİTS</b>                   |                                           |                 | <b>13</b> | <b>9</b> |          | <b>17,5</b> | <b>30</b>   | <b>TOTAL CREDİTS</b>                   |                                 |                 | <b>14</b> | <b>9</b> |          | <b>18,5</b> | <b>30</b>   |
| 2nd YEAR 1st SEMESTER ELECTIVE COURSES |                                           |                 |           |          |          |             |             | 2nd YEAR 1st SEMESTER ELECTIVE COURSES |                                 |                 |           |          |          |             |             |
| KNO2103                                | Process Measurements                      | O               | 2         | 1        |          | 2,5         | 5           | KON2205                                | Process Measurements Laboratory | O               | 2         | 1        |          | 2,5         | 5           |
| KON2107                                | Industrial Networks                       | O               | 2         | 1        |          | 2,5         | 5           | KON2206                                | Power Electronics               | O               | 2         | 1        |          | 2,5         | 5           |
| KON2106                                | Electric Motor Drives and Control Systems | O               | 2         | 1        |          | 2,5         | 5           | KON2208                                | Computer Programming            | O               | 2         | 1        |          | 2,5         | 5           |
| KON2108                                | Fuzzy Logic                               | O               | 2         | 1        |          | 2,5         | 5           | KON2209                                | Numerical Control Techniques    | O               | 2         | 1        |          | 2,5         | 5           |
| KON2109                                | Building Management Systems               | O               | 2         | 1        |          | 2,5         | 5           | KON2210                                | Industrial Robots               | O               | 2         | 1        |          | 2,5         | 5           |
| KON2110                                | Air Conditioning and Cooling Techn        | O               | 2         | 1        |          | 2,5         | 5           | KON2211                                | Lighting Automation             | O               | 2         | 1        |          | 2,5         | 5           |

**KATEGORY :**

V VOCATIONAL  
C ELECTION  
O OPTIONAL