**iMEKATRONİK MÜHENDİSLİĞİ ÇİFT ANADAL VE YANDAL PROGRAMLARI**

**A) ÇİFT ANADAL PROGRAMLARI:**

**Makine Mühendisliği Bölümü**

**(13 zorunlu ders ile ME kodlu olmayan 2 seçmeli ders olmak üzere toplam 15 ders)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | **Course****Code** | **Course Title** | **T** | **R** | **C** | **ECTS** |
| 1 | MECE 311 | Probability and Random Processes | 3 | 0 | 3 | 4 |
| 2 | MECE 223 | Digital Design I + Lab. | 3 | 2 | 4 | 4 |
| 3 | MECE 246 | Fundamentals of Electronics + Lab. | 3 | 2 | 4 | 5 |
| 4 | MECE 240 | Electromechanical Energy Conversion | 3 | 0 | 3 | 4 |
| 5 | MECE 232 | Advanced Electrical Circuit Analysis + Lab. | 3 | 2 | 4 | 4 |
| 6 | MECE 218 | Principles of Signals and Systems + Lab. | 3 | 2 | 4 | 5 |
| 7 | MECE 336 | Microprocessors I + Lab. | 3 | 2 | 4 | 5 |
| 8 | MECE 347 | Electronics + Lab. | 3 | 2 | 4 | 6 |
| 9 | MECE 302 | Sensors and Measurement | 3 | 2 | 4 | 7 |
| 10 | MECE 401 | Introduction to Robotics | 3 | 2 | 4 | 5 |
| 11 | MECE 200 | Summer Training I | 0 | 0 | 0 | 5 |
| 12 | MECE 407 | Innovative Engineering Analysis andDesign | 1 | 2 | 2 | 3 |
| 13 | MECE 408 | Innovative Engineering Design andImplementation | 1 | 2 | 2 | 3 |
| 14 |  | Engineering Elective (MECE, IE, ECE, CENG, MSE) | 3 | 0 | 3 |  |
| 15 |  | Engineering Elective (MECE, IE, ECE, CENG, MSE) | 3 | 0 | 3 |  |
|  |  | **TOPLAM KREDİ** |  |  | **48** |  |

 Makina Mühendisliği öğrencileri MECE 200 yaz stajı dersini Elektronik

Mühendisliği ile ilgili bir kurumda yapmalıdırlar

**Elektronik ve Haberleşme Mühendisliği Bölümü**

**(16 zorunlu ders ile ECE kodlu olmayan 2 seçmeli ders olmak üzere toplam 18 ders)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | **Course****Code** | **Course Title** | **T** | **R** | **C** | **ECTS** |
| 1 | MECE 113 | Computer Aided Engineering DrawingI | 2 | 2 | 3 | 6 |
| 2 | MECE 114 | Computer Aided Engineering DrawingII | 2 | 2 | 3 | 4 |
| 3 | MECE 215 | Fundamentals of Thermal Systems | 3 | 0 | 3 | 4 |
| 4 | MECE 203 | Statics | 3 | 0 | 3 | 6 |
| 5 | MECE 206 | Dynamics | 3 | 0 | 3 | 4 |
| 6 | MECE 202 | Strength of Materials | 3 | 0 | 3 | 5 |
| 7 | MECE 307 | Machine Elements I | 3 | 0 | 3 | 5 |
| 8 | MECE 210 | Manufacturing Processes | 3 | 2 | 4 | 5 |
| 9 | MECE 301 | Theory of Machines I | 3 | 0 | 3 | 4 |
| 10 | MECE 302 | Sensors and Measurement | 3 | 2 | 4 | 7 |
| 11 | MECE 401 | Introduction to Robotics | 3 | 2 | 4 | 5 |
| 12 | IE 345 | Engineering Economy | 3 | 0 | 3 | 4 |
| 13 | MECE 200 | Summer Training I | 0 | 0 | 0 | 5 |
| 14 | MECE 407 | Innovative Engineering Analysis andDesign | 1 | 2 | 2 | 3 |
| 15 | MECE 408 | Innovative Engineering Design andImplementation | 1 | 2 | 2 | 3 |
| 16 | IE 446 | Project Engineering Management | 3 | 0 | 3 | 4 |
| 17 |  | Engineering Elective (MECE, IE, ME, CENG, MSE) | 3 | 0 | 3 |  |
| 18 |  | Engineering Elective (MECE, IE, ME, CENG, MSE) | 3 | 0 | 3 |  |
|  |  | **TOPLAM KREDİ** |  |  | **52** |  |

 Elektronik ve Haberleşme Mühendisliği öğrencileri MECE 200 yaz stajı dersini

Makine Mühendisliği ile ilgili bir birimde ya da işletmede yapmalıdırlar

ELEKTRİK-ELEKTRONİK **Mühendisliği Bölümü**

(16 zorunlu ders ile ECE kodlu olmayan 2 seçmeli ders olmak üzere

toplam 18 ders)

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | Course Code | Course Title | T | R | C | ECTS |
| 1 | MECE 113 | Computer Aided Engineering Drawing I | 2 | 2 | 3 | 6 |
| 2 | MECE 114 | Computer Aided Engineering Drawing II | 2 | 2 | 3 | 4 |
| 3 | MECE 215 | Fundamentals of Thermal Systems | 3 | 0 | 3 | 4 |
| 4 | MECE 203 | Statics | 3 | 0 | 3 | 6 |
| 5 | MECE 206 | Dynamics | 3 | 0 | 3 | 4 |
| 6 | MECE 202 | Strength of Materials | 3 | 0 | 3 | 5 |
| 7 | MECE 307 | Machine Elements I | 3 | 0 | 3 | 5 |
| 8 | MECE 210 | Manufacturing Processes | 3 | 2 | 4 | 5 |
| 9 | MECE 301 | Theory of Machines I | 3 | 0 | 3 | 4 |
| 10 | MECE 302 | Sensors and Measurement | 3 | 2 | 4 | 7 |
| 11 | MECE 401 | Introduction to Robotics | 3 | 2 | 4 | 5 |
| 12 | IE 345 | Engineering Economy | 3 | 0 | 3 | 4 |
| 13 | MECE 200 | Summer Training I | 0 | 0 | 0 | 5 |
| 14 | MECE 407 | Senior Project I | 1 | 2 | 2 | 3 |
| 15 | MECE 408 | Senior Project II | 1 | 2 | 2 | 3 |
| 16 | IE 446 | Project Engineering Management | 3 | 0 | 3 | 4 |
| 17 |  | Engineering Elective (MECE, IE, ME, CENG, MSE) | 3 | 0 | 3 |  |
| 18 |  | Engineering Elective (MECE, IE, ME, CENG, MSE) | 3 | 0 | 3 |  |
|  |  | TOPLAM KREDİ |  |  | 52 |  |

 Elektrik-Elektronik Mühendisliği öğrencileri MECE 200 yaz stajı dersini Makine Mühendisliği ile ilgili bir birimde ya da işletmede yapmalıdırlar.

**Bilgisayar Mühendisliği Bölümü**

**(22 zorunlu ders ile CENG kodlu olmayan 2 teknik seçmeli ders olmak üzere toplam 24 ders)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | **Course****Code** | **Course Title** | **T** | **R** | **C** | **ECTS** |
| 1 | MECE 113 | Computer Aided Engineering DrawingI | 2 | 2 | 3 | 6 |
| 2 | MECE 114 | Computer Aided Engineering DrawingII | 2 | 2 | 3 | 4 |
| 3 | MECE 215 | Fundamentals of Thermal Systems | 3 | 0 | 3 | 4 |
| 4 | MECE 210 | Manufacturing Processes | 3 | 2 | 4 | 5 |
| 5 | MECE 203 | Statics | 3 | 0 | 3 | 6 |
| 6 | MECE 206 | Dynamics | 3 | 0 | 3 | 4 |
| 7 | MECE 202 | Strength of Materials | 3 | 0 | 3 | 5 |
| 8 | MECE 246 | Fundamentals of Electronics + Lab. | 3 | 2 | 4 | 5 |
| 9 | MECE 240 | Electromechanical Energy Conversion | 3 | 0 | 3 | 4 |
| 10 | MECE 232 | Advanced Electrical Circuit Analysis + Lab. | 3 | 2 | 4 | 4 |
| 11 | MECE 218 | Principles of Signals and Systems + Lab. | 3 | 2 | 4 | 5 |
| 12 | MECE 347 | Electronics + Lab. | 3 | 2 | 4 | 6 |
| 13 | MECE 200 | Summer Training I | 0 | 0 | 0 | 5 |
| 14 | MECE 302 | Sensors and Measurement | 3 | 2 | 4 | 7 |
| 15 | MECE 401 | Introduction to Robotics | 3 | 2 | 4 | 5 |
| 16 | MECE 307 | Machine Elements I | 3 | 0 | 3 | 5 |
| 17 | MECE 301 | Theory of Machines I | 3 | 0 | 3 | 4 |
| 18 | MECE 388 | Automatic Control + Lab. | 2 | 2 | 3 | 5 |
| 19 | IE 345 | Engineering Economy | 3 | 0 | 3 | 4 |
| 20 | MECE 407 | Innovative Engineering Analysis andDesign | 1 | 2 | 2 | 3 |
| 21 | MECE 408 | Innovative Engineering Design andImplementation | 1 | 2 | 2 | 3 |
| 22 | IE 446 | Project Engineering Management | 3 | 0 | 3 | 4 |
| 23 |  | Engineering Elective (MECE, IE, ME, ECE, MSE) | 3 | 0 | 3 |  |
| 24 |  | Engineering Elective (MECE, IE, ME, | 3 | 0 | 3 |  |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  |  | ECE, MSE) |  |  |  |  |
|  |  | **TOPLAM KREDİ** |  |  | **74** |  |

 Bilgisayar mühendisliği öğrencileri MECE 200 yaz stajı dersini Mekatronik

Mühendisliği ile ilgili bir birimde ya da işletmede yapmalıdırlar.

**Endüstri Mühendisliği Bölümü**

**(20 zorunlu ders ile IE kodlu olmayan 2 teknik seçmeli ders olmak üzere toplam 22 ders)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | **Course****Code** | **Course Title** | **T** | **R** | **C** | **ECTS** |
| 1 | MECE 114 | Computer Aided Engineering DrawingII | 2 | 2 | 3 | 4 |
| 2 | MECE 203 | Statics | 3 | 0 | 3 | 6 |
| 3 | MECE 206 | Dynamics | 3 | 0 | 3 | 4 |
| 4 | MECE 202 | Strength of Materials | 3 | 0 | 3 | 5 |
| 5 | MECE 233 | Electrical Circuit Analysis + Lab. | 3 | 2 | 4 | 4 |
| 6 | MECE 223 | Digital Design I + Lab. | 3 | 2 | 4 | 4 |
| 7 | MECE 246 | Fundamentals of Electronics + Lab. | 3 | 2 | 4 | 5 |
| 8 | MECE 240 | Electromechanical Energy Conversion | 3 | 0 | 3 | 4 |
| 9 | MECE 232 | Advanced Electrical Circuit Analysis + Lab. | 3 | 2 | 4 | 4 |
| 10 | MECE 218 | Principles of Signals and Systems + Lab. | 3 | 2 | 4 | 5 |
| 11 | MECE 347 | Electronics + Lab. | 3 | 2 | 4 | 6 |
| 12 | MECE 336 | Microprocessors I + Lab. | 3 | 2 | 4 | 5 |
| 13 | MECE 200 | Summer Training I | 0 | 0 | 0 | 5 |
| 14 | MECE 302 | Sensors and Measurement | 3 | 2 | 4 | 7 |
| 15 | MECE 401 | Introduction to Robotics | 3 | 2 | 4 | 5 |
| 16 | MECE 307 | Machine Elements I | 3 | 0 | 3 | 5 |
| 17 | MECE 301 | Theory of Machines I | 3 | 0 | 3 | 4 |
| 18 | MECE 388 | Automatic Control + Lab. | 2 | 2 | 3 | 5 |
| 19 | MECE 407 | Innovative Engineering Analysis andDesign | 1 | 2 | 2 | 3 |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 20 | MECE 408 | Innovative Engineering Design andImplementation | 1 | 2 | 2 | 3 |
| 21 |  | Engineering Elective (MECE, ECE, ME, CENG, MSE) | 3 | 0 | 3 |  |
| 22 |  | Engineering Elective (MECE, ECE, ME, CENG, MSE) | 3 | 0 | 3 |  |
|  |  | **TOPLAM KREDİ** |  |  | **70** |  |

 Endüstri mühendisliği öğrencileri MECE 200 yaz stajı dersini Mekatronik

mühendisliği ile ilgili bir birimde ya da işletmede yapmalıdırlar.

**Malzeme Bilimi ve Mühendisliği Bölümü**

**(19 zorunlu ders ile MCE kodlu olmayan 2 teknik seçmeli ders olmak**

**üzere toplam 21 ders)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | **Course****Code** | **Course Title** | **T** | **R** | **C** | **ECTS** |
| 1 | ME 114 | Computer Aided Engineering DrawingII | 2 | 2 | 3 | 4 |
| 2 | MECE 203 | Statics | 3 | 0 | 3 | 6 |
| 3 | MECE 206 | Dynamics | 3 | 0 | 3 | 4 |
| 4 | MECE 202 | Strength of Materials | 3 | 0 | 3 | 5 |
| 5 | MECE 223 | Digital Design I + Lab. | 3 | 2 | 4 | 4 |
| 6 | MECE 246 | Fundamentals of Electronics + Lab. | 3 | 2 | 4 | 5 |
| 7 | MECE 240 | Electromechanical Energy Conversion | 3 | 0 | 3 | 4 |
| 8 | MECE 232 | Advanced Electrical Circuit Analysis + Lab. | 3 | 2 | 4 | 4 |
| 9 | MECE 218 | Principles of Signals and Systems + Lab. | 3 | 2 | 4 | 5 |
| 10 | MECE 347 | Electronics + Lab. | 3 | 2 | 4 | 6 |
| 11 | MECE 336 | Microprocessors I + Lab. | 3 | 2 | 4 | 5 |
| 12 | MECE 200 | Summer Training I | 0 | 0 | 0 | 5 |
| 13 | MECE 302 | Sensors and Measurement | 3 | 2 | 4 | 7 |
| 14 | MECE 401 | Introduction to Robotics | 3 | 2 | 4 | 5 |
| 15 | MECE 307 | Machine Elements I | 3 | 0 | 3 | 5 |
| 16 | MECE 301 | Theory of Machines I | 3 | 0 | 3 | 4 |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 17 | MECE 388 | Automatic Control + Lab. | 2 | 2 | 3 | 5 |
| 18 | MECE 407 | Innovative Engineering Analysis andDesign | 1 | 2 | 2 | 3 |
| 19 | MECE 408 | Innovative Engineering Design andImplementation | 1 | 2 | 2 | 3 |
| 20 |  | Engineering Elective (MECE, IE, ME, ECE, MSE) | 3 | 0 | 3 |  |
| 21 |  | Engineering Elective (MECE, IE, ME, ECE, MSE) | 3 | 0 | 3 |  |
|  |  | **TOPLAM KREDİ** |  |  | **66** |  |

 Malzeme Bilimi ve Mühendisliği öğrencileri MECE 200 yaz stajı dersini

Mekatronik mühendisliği le ilgili bir birimde ya da işletmede yapmalıdırlar.

**İnşaat Mühendisliği Bölümü**

**(21 zorunlu ders ile 2 teknik seçmeli ders olmak üzere toplam 23 ders)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | **Course****Code** | **Course Title** | **T** | **R** | **C** | **ECTS** |
| 1 | MECE 114 | Computer Aided Engineering DrawingII | 2 | 2 | 3 | 4 |
| 2 | MECE 210 | Manufacturing Processes | 3 | 2 | 4 | 5 |
| 3 | MECE 215 | Fundamentals of Thermal Systems | 3 | 0 | 3 | 4 |
| 4 | MECE 233 | Electrical Circuit Analysis + Lab. | 3 | 2 | 4 | 4 |
| 5 | MECE 223 | Digital Design I + Lab. | 3 | 2 | 4 | 4 |
| 6 | MECE 246 | Fundamentals of Electronics + Lab. | 3 | 2 | 4 | 5 |
| 7 | MECE 240 | Electromechanical Energy Conversion | 3 | 0 | 3 | 4 |
| 8 | MECE 232 | Advanced Electrical Circuit Analysis + Lab. | 3 | 2 | 4 | 4 |
| 9 | MECE 218 | Principles of Signals and Systems + Lab. | 3 | 2 | 4 | 5 |
| 10 | MECE 347 | Electronics + Lab. | 3 | 2 | 4 | 6 |
| 11 | MECE 336 | Microprocessors I + Lab. | 3 | 2 | 4 | 5 |
| 12 | MECE 200 | Summer Training I | 0 | 0 | 0 | 5 |
| 13 | MECE 302 | Sensors and Measurement | 3 | 2 | 4 | 7 |
| 14 | MECE 401 | Introduction to Robotics | 3 | 2 | 4 | 5 |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 15 | MECE 307 | Machine Elements I | 3 | 0 | 3 | 5 |
| 16 | MECE 301 | Theory of Machines I | 3 | 0 | 3 | 4 |
| 17 | MECE 388 | Automatic Control + Lab. | 2 | 2 | 3 | 5 |
| 18 | MECE 407 | Innovative Engineering Analysis andDesign | 1 | 2 | 2 | 3 |
| 19 | MECE 408 | Innovative Engineering Design andImplementation | 1 | 2 | 2 | 3 |
| 20 | IE 446 | Project Engineering Management | 3 | 0 | 3 | 4 |
| 21 | MECE 311 | Probability and Random Processes | 3 | 0 | 3 | 4 |
| 22 |  | Engineering Elective (MECE, IE, ME, ECE, MSE) | 3 | 0 | 3 |  |
| 23 |  | Engineering Elective (MECE, IE, ME, ECE, MSE) | 3 | 0 | 3 |  |
|  |  | **TOPLAM KREDİ** |  |  | **74** |  |

 İnşaat Mühendisliği bölümü öğrencileri MECE 200 yaz stajı dersini Mekatronik

mühendisliği le ilgili bir birimde ya da işletmede yapmalıdırlar.

**Matematik ve Bilgisayar Bölümü**

**(26 zorunlu ders ile 2 teknik seçmeli ders olmak üzere toplam 28 ders)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | **Course****Code** | **Course Title** | **T** | **R** | **C** | **ECTS** |
| 1 | MECE 104 | Fundamentals of MechatronicsEngineering | 2 | 0 | 2 | 2 |
| 2 | MECE 113 | Computer Aided Engineering DrawingI | 2 | 2 | 3 | 6 |
| 3 | MECE 114 | Computer Aided Engineering DrawingII | 2 | 2 | 3 | 4 |
| 4 | MECE 203 | Statics | 3 | 0 | 3 | 6 |
| 5 | MECE 206 | Dynamics | 3 | 0 | 3 | 4 |
| 6 | MECE 202 | Strength of Materials | 3 | 0 | 3 | 5 |
| 7 | MECE 233 | Electrical Circuit Analysis + Lab. | 3 | 2 | 4 | 4 |
| 8 | MECE 223 | Digital Design I + Lab. | 3 | 2 | 4 | 4 |
| 9 | MECE 336 | Microprocessors I + Lab. | 3 | 2 | 4 | 5 |
| 10 | MECE 218 | Principles of Signals and Systems + Lab. | 3 | 2 | 4 | 5 |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 11 | MECE 388 | Automatic Control + Lab. | 2 | 2 | 3 | 5 |
| 12 | MECE 200 | Summer Training I | 0 | 0 | 0 | 5 |
| 13 | MECE 302 | Sensors and Measurement | 3 | 2 | 4 | 7 |
| 14 | MECE 401 | Introduction to Robotics | 3 | 2 | 4 | 5 |
| 15 | MECE 407 | Innovative Engineering Analysis andDesign | 1 | 2 | 2 | 3 |
| 16 | MECE 408 | Innovative Engineering Design andImplementation | 1 | 2 | 2 | 3 |
| 17 | MECE 240 | Electromechanical Energy Conversion | 3 | 0 | 3 | 4 |
| 18 | MECE 246 | Fundamentals of Electronics + Lab. | 3 | 2 | 4 | 5 |
| 19 | MECE 232 | Advanced Electrical Circuit Analysis + Lab. | 3 | 2 | 4 | 4 |
| 20 | MECE 347 | Electronics + Lab. | 3 | 2 | 4 | 6 |
| 21 | MECE 210 | Manufacturing Processes | 3 | 2 | 4 | 5 |
| 22 | MECE 215 | Fundamentals of Thermal Systems | 3 | 0 | 3 | 4 |
| 23 | MECE 307 | Machine Elements I | 3 | 0 | 3 | 5 |
| 24 | MECE 301 | Theory of Machines I | 3 | 0 | 3 | 4 |
| 25 | MSE 235 | Materials Science for ElectronicEngineers | 3 | 0 | 3 | 4 |
| 26 | IE 446 | Project Engineering Management | 3 | 0 | 3 | 4 |
| 27 | MECE 300 | Summer Training II | 0 | 0 | 0 | 5 |
| 28 |  | Engineering Elective (MECE, IE, ME, ECE, MSE) | 3 | 0 | 3 |  |
| 29 |  | Engineering Elective (MECE, IE, ME, ECE, MSE) | 3 | 0 | 3 |  |
|  |  | **TOPLAM KREDİ** |  |  | **88** |  |

# Yazılım Mühendisliği Bölümü

**(25 zorunlu ders ile 2 teknik seçmeli ders olmak üzere toplam 27 ders)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | **Course****Code** | **Course Title** | **T** | **R** | **C** | **ECTS** |
| 1 | MECE 113 | Computer Aided Engineering DrawingI | 2 | 2 | 3 | 6 |
| 2 | MECE 114 | Computer Aided Engineering DrawingII | 2 | 2 | 3 | 4 |
| 3 | MECE 215 | Fundamentals of Thermal Systems | 3 | 0 | 3 | 4 |
| 4 | MECE 210 | Manufacturing Processes | 3 | 2 | 4 | 5 |
| 5 | MECE 203 | Statics | 3 | 0 | 3 | 6 |
| 6 | MECE 206 | Dynamics | 3 | 0 | 3 | 4 |
| 7 | MECE 202 | Strength of Materials | 3 | 0 | 3 | 5 |
| 8 | MECE 246 | Fundamentals of Electronics + Lab. | 3 | 2 | 4 | 5 |
| 9 | MECE 240 | Electromechanical Energy Conversions | 3 | 0 | 3 | 4 |
| 10 | MECE 233 | Electrical Circuit Analysis + Lab. | 3 | 2 | 4 | 4 |
| 11 | MECE 232 | Advanced Electrical Circuit Analysis + Lab. | 3 | 2 | 4 | 4 |
| 12 | MECE 218 | Principles of Signals of Systems + Lab. | 3 | 2 | 4 | 5 |
| 13 | MECE 347 | Electronics + Lab. | 3 | 2 | 4 | 6 |
| 14 | MECE 200 | Summer Training I | 0 | 0 | 0 | 5 |
| 15 | MECE 302 | Sensors and Measurement | 3 | 2 | 4 | 7 |
| 16 | MECE 401 | Introduction to Robotics | 3 | 2 | 4 | 5 |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 17 | MECE 307 | Machine Elements I | 3 | 0 | 3 | 5 |
| 18 | MECE 301 | Theory of Machines I | 3 | 0 | 3 | 4 |
| 19 | MECE 388 | Automatic Control + Lab. | 2 | 2 | 3 | 5 |
| 20 | IE 345 | Engineering Economy | 3 | 0 | 3 | 4 |
| 21 | MECE 407 | Innovative Engineering Analysis and Design | 1 | 2 | 2 | 3 |
| 22 | MECE 408 | Innovative Engineering Design and Implementation | 1 | 2 | 2 | 3 |
| 23 | IE 446 | Project Engineering Management | 3 | 0 | 3 | 4 |
| 24 | MECE 223 | Digital Design I + Lab. | 3 | 2 | 4 | 4 |
| 25 | MECE 336 | Microprocessors I + Lab. | 3 | 2 | 4 | 5 |
| 26 |  | Engineering Elective (MECE, ME, EE, ECE, MSE) |  |  | 3 |  |
| 27 |  | Engineering Elective (MECE, ME, EE, ECE, MSE) |  |  | 3 |  |
|  |  | **TOPLAM KREDİ** |  |  | **86** |  |

* Yazılım Mühendisliği öğrencileri MECE 200 Yaz Stajı dersini mekatronik mühendisliği ile ilgili bir birimde ya da işletmede yapmalıdırlar.

**B) YANDAL PROGRAMLARI:**

**Bilgisayar Mühendisliği Bölümü**

**(8 zorunlu ders+ 2 seçmeli ders)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | **Course****Code** | **Course Title** | **T** | **R** | **C** | **ECTS** |
| 1 | MECE 113 | Computer Aided Engineering DrawingI | 2 | 2 | 3 | 6 |
| 2 | MECE 203 | Statics | 3 | 0 | 3 | 6 |
| 3 | MECE 202 | Strength of Materials | 3 | 0 | 3 | 5 |
| 4 | MECE 206 | Dynamics | 3 | 0 | 3 | 4 |
| 5 | MECE 218 | Principles of Signals and Systems + Lab. | 3 | 2 | 4 | 5 |
| 6 | MECE 388 | Automatic Control + Lab. | 2 | 2 | 3 | 5 |
| 7 | MECE 302 | Sensors and Measurement | 3 | 2 | 4 | 7 |
| 8 | MECE 401 | Introduction to Robotics | 3 | 2 | 4 | 5 |
| 9 | \*MECE232 | Advanced Electrical Circuit Analysis + Lab. | 3 | 2 | 4 | 4 |
| 10 | \*MECE 240 | Electromechanical Energy Conversion | 3 | 0 | 3 | 4 |
| 11 | \*MECE 246 | Fundamentals of Electronics + Lab. | 3 | 2 | 4 | 5 |
| 12 | \*MECE 347 | Electronics + Lab. | 3 | 2 | 4 | 6 |
| 13 | \*MECE114 | Computer Aided Engineering DrawingII | 2 | 2 | 3 | 4 |
| 14 | \*MECE 210 | Manufacturing Processes | 3 | 2 | 4 | 5 |
| 15 | \*MECE 215 | Fundamentals of Thermal Systems | 3 | 0 | 3 | 4 |
| 16 | \*MECE 307 | Machine Elements I | 3 | 0 | 3 | 5 |
| 17 | \*MECE 301 | Theory of Machines I | 3 | 0 | 3 | 4 |

 Tabloda ‘\*’ ile gösterilen dersler seçmeli derslerdir. Öğrenciler bu seçmeli derslerden en az 2 tanesini programı bitirmek için almalıdırlar

**Endüstri Mühendisliği Bölümü**

**(9 zorunlu ders+ 2 seçmeli ders)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | **Course****Code** | **Course Title** | **T** | **R** | **C** | **ECTS** |
| 1 | MECE 203 | Statics | 3 | 0 | 3 | 6 |
| 2 | MECE 202 | Strength of Materials | 3 | 0 | 3 | 5 |
| 3 | MECE 206 | Dynamics | 3 | 0 | 3 | 4 |
| 4 | MECE 233 | Electrical Circuit Analysis + Lab. | 3 | 2 | 4 | 4 |
| 5 | MECE 223 | Digital Design I + Lab. | 3 | 2 | 4 | 4 |
| 6 | MECE 336 | Microprocessors I + Lab. | 3 | 2 | 4 | 5 |
| 7 | MECE 218 | Principles of Signals and Systems + Lab. | 3 | 2 | 4 | 5 |
| 8 | MECE 302 | Sensors and Measurement | 3 | 2 | 4 | 7 |
| 9 | MECE 401 | Introduction to Robotics | 3 | 2 | 4 | 5 |
| 10 | \*MECE 246 | Fundamentals of Electronics + Lab. | 3 | 2 | 4 | 5 |
| 11 | \*MECE 232 | Advanced Electrical Circuit Analysis + Lab. | 3 | 2 | 4 | 4 |
| 12 | \*MECE 240 | Electromechanical Energy Conversion | 3 | 0 | 3 | 4 |
| 13 | \*MECE 388 | Automatic Control + Lab. | 2 | 2 | 3 | 5 |
| 14 | \*MECE 347 | Electronics + Lab. | 3 | 2 | 4 | 6 |
| 15 | \*MECE 114 | Computer Aided Engineering DrawingII | 2 | 2 | 3 | 4 |
| 16 | \*MECE 307 | Machine Elements I | 3 | 0 | 3 | 5 |
| 17 | \*MECE 301 | Theory of Machines I | 3 | 0 | 3 | 4 |

 Tabloda ‘\*’ ile gösterilen dersler seçmeli derslerdir. Öğrenciler bu seçmeli derslerden en az 2 tanesini programı bitirmek için almalıdırlar.

**Malzeme Bilimi ve Mühendisliği Bölümü**

**(8 zorunlu ders+ 2 seçmeli ders)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | **Course****Code** | **Course Title** | **T** | **R** | **C** | **ECTS** |
| 1 | MECE 206 | Dynamics | 3 | 0 | 3 | 4 |
| 2 | MECE 114 | Computer Aided Engineering DrawingII | 2 | 2 | 3 | 4 |
| 3 | MECE 223 | Digital Design I + Lab. | 3 | 2 | 4 | 4 |
| 4 | MECE 218 | Principles of Signals and Systems + Lab. | 3 | 2 | 4 | 5 |
| 5 | MECE 336 | Microprocessors I + Lab. | 3 | 2 | 4 | 5 |
| 6 | MECE 388 | Automatic Control + Lab. | 2 | 2 | 3 | 5 |
| 7 | MECE 302 | Sensors and Measurement | 3 | 2 | 4 | 7 |
| 8 | MECE 401 | Introduction to Robotics | 3 | 2 | 4 | 5 |
| 9 | \*MECE 232 | Advanced Electrical Circuit Analysis + Lab. | 3 | 2 | 4 | 4 |
| 10 | \*MECE 246 | Fundamentals of Electronics + Lab. | 3 | 2 | 4 | 5 |
| 11 | \*MECE 240 | Electromechanical Energy Conversion | 3 | 0 | 3 | 4 |
| 12 | \*MECE 347 | Electronics + Lab. | 3 | 2 | 4 | 6 |
| 13 | \*MECE 307 | Machine Elements I | 3 | 0 | 3 | 5 |
| 14 | \*MECE 301 | Theory of Machines I | 3 | 0 | 3 | 4 |

 Tabloda ‘\*’ ile gösterilen dersler seçmeli derslerdir. Öğrenciler bu seçmeli derslerden en az 2 tanesini programı bitirmek için almalıdırlar.

**İnşaat Mühendisliği Bölümü**

**(8 zorunlu ders+ 2 seçmeli ders)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | **Course****Code** | **Course Title** | **T** | **R** | **C** | **ECTS** |
| 1 | MECE 210 | Manufacturing Processes | 3 | 2 | 4 | 5 |
| 2 | MECE 233 | Electrical Circuit Analysis + Lab. | 3 | 2 | 4 | 4 |
| 3 | MECE 223 | Digital Design I + Lab. | 3 | 2 | 4 | 4 |
| 4 | MECE 218 | Principles of Signals and Systems + Lab. | 3 | 2 | 4 | 5 |
| 5 | MECE 336 | Microprocessors I + Lab. | 3 | 2 | 4 | 5 |
| 6 | MECE 388 | Automatic Control + Lab. | 2 | 2 | 3 | 5 |
| 7 | MECE 302 | Sensors and Measurement | 3 | 2 | 4 | 7 |
| 8 | MECE 401 | Introduction to Robotics | 3 | 2 | 4 | 5 |
| 9 | \*MECE 240 | Electromechanical Energy Conversion | 3 | 0 | 3 | 4 |
| 10 | \*MECE 232 | Advanced Electrical Circuit Analysis + Lab. | 3 | 2 | 4 | 4 |
| 11 | \*MECE 246 | Fundamentals of Electronics + Lab. | 3 | 2 | 4 | 5 |
| 12 | \*MECE 347 | Electronics + Lab. | 3 | 2 | 4 | 6 |
| 13 | \*MECE 114 | Computer Aided Engineering DrawingII | 2 | 2 | 3 | 4 |
| 14 | \*MECE 307 | Machine Elements I | 3 | 0 | 3 | 5 |
| 15 | \*MECE 301 | Theory of Machines I | 3 | 0 | 3 | 4 |

 Tabloda ‘\*’ ile gösterilen dersler seçmeli derslerdir. Öğrenciler bu seçmeli derslerden en az 2 tanesini programı bitirmek için almalıdırlar.

**Matematik ve Bilgisayar Bölümü**

**(10 zorunlu ders+ 5 seçmeli ders)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | **Course** | **Course Title** | **T** | **R** | **C** | **ECTS** |
| 1 | MECE 113 | Computer Aided Engineering DrawingI | 2 | 2 | 3 | 6 |
| 2 | MECE 203 | Statics | 3 | 0 | 3 | 6 |
| 3 | MECE 202 | Strength of Materials | 3 | 0 | 3 | 5 |
| 4 | MECE 206 | Dynamics | 3 | 0 | 3 | 4 |
| 5 | MECE 233 | Electrical Circuit Analysis + Lab. | 3 | 2 | 4 | 4 |
| 6 | MECE 223 | Digital Design I + Lab. | 3 | 2 | 4 | 4 |
| 7 | MECE 336 | Microprocessors I + Lab. | 3 | 2 | 4 | 5 |
| 8 | MECE 200 | Summer Training I | 0 | 0 | 0 | 5 |
| 9 | MECE 302 | Sensors and Measurement | 3 | 2 | 4 | 7 |
| 10 | MECE 401 | Introduction to Robotics | 3 | 2 | 4 | 5 |
| 11 | \*MECE 232 | Advanced Electrical Circuit Analysis + Lab. | 3 | 2 | 4 | 4 |
| 12 | \*MECE 246 | Fundamentals of Electronics + Lab. | 3 | 2 | 4 | 5 |
| 13 | \*MECE 240 | Electromechanical Energy Conversion | 3 | 0 | 3 | 4 |
| 14 | \*MECE 218 | Principles of Signals and Systems + Lab. | 3 | 2 | 4 | 5 |
| 15 | \*MECE 347 | Electronics + Lab. | 3 | 2 | 4 | 6 |
| 16 | \*MECE 388 | Automatic Control + Lab. | 2 | 2 | 3 | 5 |
| 17 | \*MECE 114 | Computer Aided Engineering DrawingII | 2 | 2 | 3 | 4 |
| 18 | \*MECE 215 | Fundamentals of Thermal Systems | 3 | 0 | 3 | 4 |
| 19 | \*MECE 210 | Manufacturing Processes | 3 | 2 | 4 | 5 |
| 20 | \*MECE 307 | Machine Elements I | 3 | 0 | 3 | 5 |
| 21 | \*MECE 301 | Theory of Machines I | 3 | 0 | 3 | 4 |

 Matematik ve Bilgisayar bölümü öğrencileri MECE 200 yaz stajı dersini

Mekatronik mühendisliği le ilgili bir birimde ya da işletmede yapmalıdırlar.

 Tabloda ‘\*’ ile gösterilen dersler seçmeli derslerdir. Öğrenciler bu seçmeli derslerden en az 5 tanesini programı bitirmek için almalıdırlar.

# Yazılım Mühendisliği Bölümü

**(8 zorunlu ders + 2 seçmeli)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | **Course****Code** | **Course Title** | **T** | **R** | **C** | **ECTS** |
| 1 | MECE 113 | Computer Aided Engineering DrawingI | 2 | 2 | 3 | 6 |
| 2 | MECE 203 | Statics | 3 | 0 | 3 | 6 |
| 3 | MECE 202 | Strength of Materials | 3 | 0 | 3 | 5 |
| 4 | MECE 206 | Dynamics | 3 | 0 | 3 | 4 |
| 5 | MECE 218 | Principles of Signals of Systems + Lab. | 3 | 2 | 4 | 5 |
| 6 | MECE 302 | Sensors and Measurement | 3 | 2 | 4 | 7 |
| 7 | MECE 388 | Automatic Control + Lab. | 2 | 2 | 3 | 5 |
| 8 | MECE 401 | Introduction to Robotics | 3 | 2 | 4 | 5 |
| 9 | \*MECE 114 | Computer Aided Engineering DrawingII | 2 | 2 | 3 | 4 |
| 10 | \*MECE 210 | Manufacturing Processes | 3 | 2 | 4 | 5 |
| 11 | \*MECE 215 | Fundamentals of Thermal Systems | 3 | 0 | 3 | 4 |
| 12 | \*MECE 223 | Digital Design I Lab. | 3 | 2 | 4 | 4 |
| 13 | \*MECE 232 | Advanced Electrical Circuit Analysis + Lab. | 3 | 2 | 4 | 4 |
| 14 | \*MECE 233 | Electrical Circuit Analysis + Lab. | 3 | 2 | 4 | 4 |
| 15 | \*MECE 240 | Electromechanical Energy Conversions | 3 | 0 | 3 | 4 |
| 16 | \*MECE 246 | Fundamentals of Electronics + Lab. | 3 | 2 | 4 | 5 |
| 17 | \*MECE 301 | Theory of Machines I | 3 | 0 | 3 | 4 |
| 18 | \*MECE 307 | Machine Elements I | 3 | 0 | 3 | 5 |
| 19 | \*MECE 336 | Microprocessors I + Lab. | 3 | 2 | 4 | 5 |
| 20 | \*MECE 347 | Electronics + Lab. | 3 | 2 | 4 | 6 |

* Tabloda ‘\*’ işareti ile gösterilen dersler seçmeli derslerdir. Öğrenciler bu seçmeli derslerden en az iki tanesini programı bitirmek için almalıdır.