**Industrial Engineering (1. Program) – Mechanical Engineering (2. Program)**

**Double Major Program**

**(21.01.2020)**

**Courses that Industrial Engineering (English) Students Should Take from the Mechanical Engineering (English) Program**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Code** | **Course** | **App** | **ECTS Credit** |
| 1 | CHEM1101 | General Chemistry | 3/0/0 | 5 |
| 2 | MECH1120 | Engineering Graphics | 2/0/4 | 6 |
| 3 | MECH2120 | Computational Methods | 3/0/2 | 6 |
| 4 | MECT2520 | Materials and Manufacturing | 4/1/0 | 6 |
| 5 | MECT2211 | Engineering Mechanics - I | 3/1/0 | 5 |
| 6 | MECT2222 | Engineering Mechanics - II | 3/1/0 | 5 |
| 7 | MECH3111 | Measurements and Instrumentation | 1/0/2 | 3 |
| 8 | MECH3122 | Mechanical Engineering Laboratory | 1/0/2 | 3 |
| 9 | MECH3211 | Machine Design-I | 3/0/2 | 6 |
| 10 | MECH3222 | Machine Design-II | 3/0/2 | 6 |
| 11 | MECH3244 | Theory of Machines | 3/1/0 | 5 |
| 12 | MECH3311 | Fluid Mechanics | 3/1/0 | 5 |
| 13 | MECT3322 | Fundamentals of Thermal Sciences | 3/1/0 | 5 |
| 14 | MECH3422 | Modeling and Control of Dyn. Systems | 3/1/0 | 5 |
| 15 | MECH4330 | Thermo-Fluid System Design | 2/0/2 | 5 |
| 16 | ELEC2309 | Fund. Electrical and Electronics Engineering | 3/1/0 | 5 |
| 17 | MECH4902 | Design Project | 0/6/0 | 6 |
| 18 | MECH\_AE\_I | MECH Area Elective-I | 3/0/0 | 5 |
| 19 | MECH3910 | Industrial Training-II | 0/160/0 | 1 |
| 19 course | | |  | 93 |

***(Note: It is the student's responsibility to provide the prerequisites for the courses to be taken.)***

**Minor Program**

**Courses that Industrial Engineering (English) Students Should Take from the Mechanical Engineering (English) Program**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Code** | **Course** | **Course./Ps./Lab** | **ECTS Credit** |
| 1 | MECT2520 | Materials and Manufacturing | 4/1/0 | 6 |
| 2 | MECT2211 | Engineering Mechanics - I | 3/1/0 | 5 |
| 3 | MECT2222 | Engineering Mechanics - II | 3/1/0 | 5 |
| 4 | MECH3211 | Machine Design-I | 3/0/2 | 6 |
| 5 | MECH3311 | Fluid Mechanics | 3/1/0 | 5 |
| 6 | MECT3322 | Fundamentals of Thermal Sciences | 3/1/0 | 5 |
| 7 | MECH3422 | Modelling and Control of Dyn. Systems | 3/1/0 | 5 |
| 7 Course | | |  | 37 |

***(Note: It is the student's responsibility to provide the prerequisites for the courses to be taken.)***

**Computer Engineering  (1. Program) – Mechanical Engineering (2. Program)**

**Double Major Program**

**(21.01.2020)**

**Courses that Computer Engineering (English) Students Should Take from the Mechanical Engineering (English) Program**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Code** | **Course** | **Course./Ps./Lab** | **ECTS Credit** |
| 1 | CHEM1101 | General Chemistry | 3/0/0 | 5 |
| 2 | MECH1120 | Engineering Graphics | 2/0/4 | 6 |
| 3 | MATH2106 | Multivariable Calculus & Diff. Eqns. | 3/0/2 | 6 |
| 4 | MECT2520 | Materials and Manufacturing | 4/1/0 | 6 |
| 5 | MECT2211 | Engineering Mechanics - I | 3/1/0 | 5 |
| 6 | MECT2222 | Engineering Mechanics - II | 3/1/0 | 5 |
| 7 | MECH3122 | Mechanical Engineering Laboratory | 1/0/2 | 3 |
| 8 | MECH3211 | Machine Design-I | 3/0/2 | 6 |
| 9 | MECH3222 | Machine Design-II | 3/0/2 | 6 |
| 10 | MECH3244 | Theory of Machines | 3/1/0 | 5 |
| 11 | MECH3311 | Fluid Mechanics | 3/1/0 | 5 |
| 12 | MECT3322 | Fundamentals of Thermal Sciences | 3/1/0 | 5 |
| 13 | MECH3422 | Modeling and Control of Dyn. Systems | 3/1/0 | 5 |
| 14 | MECH4330 | Thermo-Fluid System Design | 2/0/2 | 5 |
| 15 | MECH4902 | Design Project | 0/6/0 | 6 |
| 16 | MECH\_AE\_I | MECH Area Elective | 3/0/0 | 5 |
| 17 | MECH3910 | Industrial Training-II | 0/160/0 | 1 |
| 17 ders | | |  | 85 |

***(Note: It is the student's responsibility to provide the prerequisites for the courses to be taken.)***

**Minor Program**

**Courses that Computer Engineering (English) Students Should Take from the Mechanical Engineering (English) Program**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Code** | **Course** | **Course./Ps./Lab** | **ECTS Credit** |
| 1 | MECT2520 | Materials and Manufacturing | 4/1/0 | 6 |
| 2 | MECT2211 | Engineering Mechanics - I | 3/1/0 | 5 |
| 3 | MECT2222 | Engineering Mechanics - II | 3/1/0 | 5 |
| 4 | MECH3211 | Machine Design-I | 3/0/2 | 6 |
| 5 | MECH3311 | Fluid Mechanics | 3/1/0 | 5 |
| 6 | MECT3322 | Fundamentals of Thermal Sciences | 3/1/0 | 5 |
| 7 | MECH3422 | Modelling and Control of Dyn. Systems | 3/1/0 | 5 |
| 7ders | | |  | **37** |

***(Note: It is the student's responsibility to provide the prerequisites for the courses to be taken.)***

**Software Engineering  (1. Program) – Mechanical Engineering (2. Program)**

**Double Major Program**

**(21.01.2020)**

**Courses that Software Engineering (English) Students Should Take from the Mechanical Engineering (English) Program**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Code** | **Course** | **Course./Ps./Lab** | **ECTS Credit** |
| 1 | CHEM1101 | General Chemistry | 3/0/0 | 5 |
| 2 | MECH1120 | Engineering Graphics | 2/0/4 | 6 |
| 3 | MATH2106 | Multivariable Calculus & Diff. Eqns. | 3/0/2 | 6 |
| 4 | MECT2520 | Materials and Manufacturing | 4/1/0 | 6 |
| 5 | MECT2211 | Engineering Mechanics - I | 3/1/0 | 5 |
| 6 | MECT2222 | Engineering Mechanics - II | 3/1/0 | 5 |
| 7 | MECH3122 | Mechanical Engineering Laboratory | 1/0/2 | 3 |
| 8 | MECH3211 | Machine Design-I | 3/0/2 | 6 |
| 9 | MECH3222 | Machine Design-II | 3/0/2 | 6 |
| 10 | MECH3244 | Theory of Machines | 3/1/0 | 5 |
| 11 | MECH3311 | Fluid Mechanics | 3/1/0 | 5 |
| 12 | MECT3322 | Fundamentals of Thermal Sciences | 3/1/0 | 5 |
| 13 | MECH3422 | Modeling and Control of Dyn. Systems | 3/1/0 | 5 |
| 14 | MECH4330 | Thermo-Fluid System Design | 2/0/2 | 5 |
| 15 | MECH4902 | Design Project | 0/6/0 | 6 |
| 16 | MECH\_AE\_I | MECH Area Elective | 3/0/0 | 5 |
| 17 | MECH3910 | Industrial Training-II | 0/160/0 | 1 |
| 17 Course | | |  | **85** |

***(Note: It is the student's responsibility to provide the prerequisites for the courses to be taken.)***

**Minor Program**

**Courses that Software Engineering (English) Students Should Take from the Mechanical Engineering (English) Program**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Code** | **Course** | **Course./Ps./Lab** | **ECTS Credit** |
| 1 | MECT2520 | Materials and Manufacturing | 4/1/0 | 6 |
| 2 | MECT2211 | Engineering Mechanics - I | 3/1/0 | 5 |
| 3 | MECT2222 | Engineering Mechanics - II | 3/1/0 | 5 |
| 4 | MECH3211 | Machine Design-I | 3/0/2 | 6 |
| 5 | MECH3311 | Fluid Mechanics | 3/1/0 | 5 |
| 6 | MECT3322 | Fundamentals of Thermal Sciences | 3/1/0 | 5 |
| 7 | MECH3422 | Modelling and Control of Dyn. Systems | 3/1/0 | 5 |
| 7 ders | | |  | 37 |

***(Note: It is the student's responsibility to provide the prerequisites for the courses to be taken.)***

[**Electrical and Electronics Engineering**](https://www.isikun.edu.tr/en/electrical-and-electronics-engineering) **(1. Program) – Mechanical Engineering (2. Program)**

**Double Major Program**

**(21.01.2020)**

**Courses that** [**Electrical and Electronics Engineering**](https://www.isikun.edu.tr/en/electrical-and-electronics-engineering) **(English) Students Should Take from the Mechanical Engineering (English) Program**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Code** | **Course** | **Course./Ps./Lab** | **ECTS Credit** |
| 1 | CHEM1101 | General Chemistry | 3/0/0 | 5 |
| 2 | MECH1120 | Engineering Graphics | 2/0/4 | 6 |
| 3 | MECT2520 | Materials and Manufacturing | 4/1/0 | 6 |
| 4 | MECH2120 | Computational Methods in Engineering | 3/0/2 | 6 |
| 5 | MECT2211 | Engineering Mechanics - I | 3/1/0 | 5 |
| 6 | MECT2222 | Engineering Mechanics - II | 3/1/0 | 5 |
| 7 | MECH3122 | Mechanical Engineering Laboratory | 1/0/2 | 3 |
| 8 | MECH3211 | Machine Design-I | 3/0/2 | 6 |
| 9 | MECH3222 | Machine Design-II | 3/0/2 | 6 |
| 10 | MECH3244 | Theory of Machines | 3/1/0 | 5 |
| 11 | MECH3311 | Fluid Mechanics | 3/1/0 | 5 |
| 12 | MECT3322 | Fundamentals of Thermal Sciences | 3/1/0 | 5 |
| 13 | MECH4330 | Thermo-Fluid System Design | 2/0/2 | 5 |
| 14 | MECH4902 | Design Project | 0/6/0 | 6 |
| 15 | MECH\_AE\_I | MECH Area Elective | 3/0/0 | 5 |
| 16 | MECH3910 | Industrial Training-II | 0/160/0 | 1 |
| 16 Course | | |  | 80 |

***(Note: It is the student's responsibility to provide the prerequisites for the courses to be taken.)***

**Minor Program**

**(21.01.2020)**

**Courses that** [**Electrical and Electronics Engineering**](https://www.isikun.edu.tr/en/electrical-and-electronics-engineering) **(English) Students Should Take from the Mechanical Engineering (English) Program**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Code** | **Course** | **Course./Ps./Lab** | **ECTS Credit** |
| 1 | MECT2520 | Materials and Manufacturing | 4/1/0 | 6 |
| 2 | MECT2211 | Engineering Mechanics - I | 3/1/0 | 5 |
| 3 | MECT2222 | Engineering Mechanics - II | 3/1/0 | 5 |
| 4 | MECH3211 | Machine Design-I | 3/0/2 | 6 |
| 5 | MECH3311 | Fluid Mechanics | 3/1/0 | 5 |
| 6 | MECT3322 | Fundamentals of Thermal Sciences | 3/1/0 | 5 |
| 6 Course | | |  | 32 |

***(Note: It is the student's responsibility to provide the prerequisites for the courses to be taken.)***

**Biomedical Engineering  (1. Program) – Mechanical Engineering (2. Program)**

**Double Major Program**

**(21.01.2020)**

**Courses that** [**Biomedical Engineering**](https://www.isikun.edu.tr/en/electrical-and-electronics-engineering) **(English) Students Should Take from the Mechanical Engineering (English) Program**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Code** | **Course** | **Course./Ps./Lab** | **ECTS Credit** |
| 1 | MECH1120 | Engineering Graphics | 2/0/4 | 6 |
| 2 | MECT2520 | Materials and Manufacturing | 4/1/0 | 6 |
| 3 | MECH2120 | Computational Methods in Engineering | 3/0/2 | 6 |
| 4 | MECT2211 | Engineering Mechanics – I | 3/1/0 | 5 |
| 5 | MECT2222 | Engineering Mechanics – II | 3/1/0 | 5 |
| 6 | MECH3122 | Mechanical Engineering Laboratory | 1/0/2 | 3 |
| 7 | MECH3211 | Machine Design-I | 3/0/2 | 6 |
| 8 | MECH3222 | Machine Design-II | 3/0/2 | 6 |
| 9 | MECH3244 | Theory of Machines | 3/1/0 | 5 |
| 10 | MECH3311 | Fluid Mechanics | 3/1/0 | 5 |
| 11 | MECT3322 | Fundamentals of Thermal Sciences | 3/1/0 | 5 |
| 12 | MECH4330 | Thermo-Fluid System Design | 2/0/2 | 5 |
| 13 | MECH4902 | Design Project | 0/6/0 | 6 |
| 14 | MECH\_AE\_I | MECH Area Elective-I | 3/0/0 | 5 |
| 15 | MECH3910 | Industrial Training-II | 0/160/0 | 1 |
| 15 Course | | |  | **75** |

***(Note: It is the student's responsibility to provide the prerequisites for the courses to be taken.)***

**Minor Program**

**Courses that** [**Biomedical Engineering**](https://www.isikun.edu.tr/en/electrical-and-electronics-engineering) **(English) Students Should Take from the Mechanical Engineering (English) Program**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Code** | **Course** | **Course./Ps./Lab** | **ECTS Credit** |
| 1 | MECT2520 | Materials and Manufacturing | 4/1/0 | 6 |
| 2 | MECT2211 | Engineering Mechanics - I | 3/1/0 | 5 |
| 3 | MECT2222 | Engineering Mechanics - II | 3/1/0 | 5 |
| 4 | MECH3211 | Machine Design-I | 3/0/2 | 6 |
| 5 | MECH3311 | Fluid Mechanics | 3/1/0 | 5 |
| 6 | MECT3322 | Fundamentals of Thermal Sciences | 3/1/0 | 5 |
| 6 Course | | |  | 32 |

***(Note: It is the student's responsibility to provide the prerequisites for the courses to be taken.)***

**Civil Engineering  (1. Program) – Mechanical Engineering (2. Program)**

**Double Major Program**

**(21.01.2020)**

**Courses that** [**Civil Engineering**](https://www.isikun.edu.tr/en/electrical-and-electronics-engineering) **(English) Students Should Take from the Mechanical Engineering (English) Program**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Code** | **Course** | **Course./Ps./Lab** | **ECTS Credit** |
| 1 | MECH1120 | Engineering Graphics | 2/0/4 | 6 |
| 2 | MECH3511 | Manufacturing Processes | 3/1/0 | 5 |
| 3 | MECH2120 | Computational Methods in Engineering | 3/0/2 | 6 |
| 4 | MECH3111 | Measurements and Instrumentation | 1/0/2 | 3 |
| 5 | MECH3122 | Mechanical Engineering Laboratory | 1/0/2 | 3 |
| 6 | MECH3211 | Machine Design-I | 3/0/2 | 6 |
| 7 | MECH3222 | Machine Design-II | 3/0/2 | 6 |
| 8 | MECH3244 | Theory of Machines | 3/1/0 | 5 |
| 9 | MECT3322 | Fundamentals of Thermal Sciences | 3/1/0 | 5 |
| 10 | MECH3422 | Modeling and Control of Dyn. Systems | 3/1/0 | 5 |
| 11 | MECH4330 | Thermo-Fluid System Design | 2/0/2 | 5 |
| 12 | ELEC2309 | Fund. Electrical and Electronics Engineering | 3/1/0 | 5 |
| 13 | MECH4902 | Design Project | 0/6/0 | 6 |
| 14 | MECH\_AE\_I | MECH Area Elective | 3/0/0 | 5 |
| 16 | MECH3910 | Industrial Training-II | 0/160/0 | 1 |
| 15 Course | | |  | **74** |

***(Note: It is the student's responsibility to provide the prerequisites for the courses to be taken.)***

**Minor Program**

**Courses that** [**Civil Engineering**](https://www.isikun.edu.tr/en/electrical-and-electronics-engineering) **(English) Students Should Take from the Mechanical Engineering (English) Program**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Code** | **Course** | **Course./Ps./Lab** | **ECTS Credit** |
| 1 | MECT2520 | Materials and Manufacturing | 4/1/0 | 6 |
| 2 | MECH3211 | Machine Design - I | 3/0/2 | 6 |
| 3 | MECH3222 | Machine Design - II | 3/0/2 | 6 |
| 4 | MECT3322 | Fundamentals of Thermal Sciences | 3/1/0 | 5 |
| 5 | MECH3422 | Modeling and Control of Dyn. Systems | 3/1/0 | 5 |
| 6 | MECH4330 | Thermo-Fluid System Design | 2/0/2 | 5 |
| 6 Course | | |  | 32 |

***(Note: It is the student's responsibility to provide the prerequisites for the courses to be taken.)***