

PREP CLASS

| Prep Class 1st Semester | | | | | Prep Class 2nd Semester | | | | | | |
|-------------------------|-------------|----|----|----|-------------------------|--------|-------------|----|----|----|------|
| Code | Course Name | LT | LB | CR | ECTS | Code | Course Name | LT | LB | CR | ECTS |
| MEE000 | Prep Class | 0 | 0 | 0 | 0 | MEE00B | Prep Class | 0 | 0 | 0 | 0 |

I. CLASS

| 1st Semester Courses | | | | | 2nd Semester Courses | | | | | | |
|----------------------|---|-----------|----------|-----------|----------------------|--------|----------------------------------|-----------|----------|-----------|-----------|
| Code | Course Name | LT | LB | CR | ECTS | Code | Course Name | LT | LB | CR | ECTS |
| PHY195 | General Physics I | 3 | 2 | 4 | 5 | PHY196 | General Physics II | 3 | 2 | 4 | 5 |
| FOL183 | Foreign Language I | 2 | 0 | 2 | 2 | FOL184 | Foreign Language II | 2 | 0 | 2 | 2 |
| CHE189 | General Chemistry | 3 | 2 | 4 | 4 | CAL182 | Mathematics II | 4 | 0 | 4 | 5 |
| CAL181 | Mathematics I | 4 | 0 | 4 | 5 | CAL194 | Linear Algebra | 3 | 0 | 3 | 4 |
| MEE101 | Introduction to Mechanical Engineering | 2 | 0 | 2 | 4 | MEE102 | Statics | 4 | 0 | 4 | 4 |
| CEC101 | Information Technologies and Applications | 1 | 2 | 2 | 3 | MEE104 | Computer Aided Technical Drawing | 2 | 2 | 3 | 4 |
| CEC105 | Technical Drawing | 2 | 2 | 3 | 5 | CEC102 | Computer Programming | 1 | 2 | 2 | 4 |
| TRK181 | Turkish Language I | 2 | 0 | 2 | 2 | TRK182 | Turkish Language II | 2 | 0 | 2 | 2 |
| | Total | 19 | 8 | 23 | 30 | | Toplam | 21 | 6 | 24 | 30 |

II. CLASS

| 3rd Semester Courses | | | | | 4th Semester Courses | | | | | | |
|----------------------|---|-----------|----------|-----------|----------------------|--------|--|-----------|----------|-----------|-----------|
| Code | Course Name | LT | LB | CR | ECTS | Code | Course Name | LT | LB | CR | ECTS |
| HST181 | Atatürk's Principles and History of Revolutions I | 2 | 0 | 2 | 2 | HST182 | Atatürk's Principles and History of Revolutions II | 2 | 0 | 2 | 2 |
| CAL289 | Differential Equations | 4 | 0 | 4 | 4 | FOL282 | Technical Foreign Language II | 2 | 0 | 2 | 2 |
| FOL281 | Technical Foreign Language I | 2 | 0 | 2 | 2 | MEE202 | Thermodynamics II | 3 | 0 | 3 | 5 |
| MEE201 | Thermodynamics I | 3 | 0 | 3 | 5 | MEE204 | Strength of Materials II | 3 | 0 | 3 | 5 |
| MEE203 | Strength of Materials I | 3 | 0 | 3 | 4 | MEE206 | Engineering Materials | 3 | 1 | 3 | 4 |
| MEE205 | Materials Science | 3 | 1 | 3 | 4 | MEE208 | Manufacturing Processes II | 3 | 1 | 3 | 4 |
| MEE207 | Manufacturing Processes I | 3 | 1 | 3 | 4 | MEE210 | Basic Electric and Electronics | 2 | 0 | 2 | 4 |
| MEE209 | Dynamics | 4 | 0 | 4 | 5 | MEE212 | Measurement Technique | 2 | 1 | 2 | 4 |
| | Total | 24 | 2 | 24 | 30 | | Total | 20 | 3 | 20 | 30 |

III. CLASS

| 5th Semester Courses | | | | | 6th Semester Courses | | | | | | |
|----------------------|----------------------------------|-----------|----------|-----------|----------------------|--------|-----------------------------------|-----------|----------|-----------|-----------|
| Code | Course Name | LT | LB | CR | ECTS | Code | Course Name | LT | LB | CR | ECTS |
| CEC303 | Engineering Economics | 2 | 0 | 2 | 3 | CEC306 | Occupational Health and Safety II | 2 | 0 | 2 | 2 |
| CEC305 | Occupational Health and Safety I | 2 | 0 | 2 | 2 | MEE302 | Fluid Mechanics II | 3 | 0 | 3 | 3 |
| CEC307 | Probability and Statistics | 2 | 0 | 2 | 2 | MEE308 | Dynamics of Machinery | 3 | 0 | 3 | 3 |
| MEE301 | Fluid Mechanics I | 3 | 0 | 3 | 3 | MEE348 | Machine Elements II | 3 | 0 | 3 | 3 |
| MEE305 | Heat Transfer | 4 | 0 | 4 | 4 | MEE356 | System Dynamics and Control | 3 | 0 | 3 | 3 |
| MEE307 | Mechanisms | 3 | 0 | 3 | 3 | MEE338 | Numerical Analysis | 2 | 0 | 2 | 2 |
| MEE303 | Machine Elements I | 3 | 0 | 3 | 3 | | Technical Elective Course | 3 | 0 | 3 | 4 |
| MEE399 | Industrial Practice I | 0 | 0 | 0 | 4 | | Technical Elective Course | 3 | 0 | 3 | 4 |
| | Technical Elective Course | 3 | 0 | 3 | 4 | | Technical Elective Course | 3 | 0 | 3 | 4 |
| | Social Elective Course | 2 | 0 | 2 | 2 | | Sosyal Seçmeli Ders | 2 | 0 | 2 | 2 |
| | Toplam | 24 | 0 | 24 | 30 | | Toplam | 27 | 0 | 27 | 30 |

| Technical Elective Course | | | | | Technical Elective Courses | | | | | | |
|---------------------------|--------------------------|----|----|----|----------------------------|--------|--|----|----|----|------|
| Code | Course Name | LT | LB | CR | ECTS | Code | Course Name | LT | LB | CR | ECTS |
| MEE321 | Refrigeration Technology | 3 | 0 | 3 | 4 | MEE328 | CNC Programming | 3 | 0 | 3 | 4 |
| MEE327 | Computer Aided Design | 3 | 0 | 3 | 4 | MEE330 | Introduction to Finite Element Analysis | 3 | 0 | 3 | 4 |
| MEE329 | Machine Tools | 3 | 0 | 3 | 4 | MEE336 | Renewable Energy Resources | 3 | 0 | 3 | 4 |
| MEE339 | Energy Management | 3 | 0 | 3 | 4 | MEE340 | Basics of HVAC | 3 | 0 | 3 | 4 |
| | | | | | | MEE342 | Hydraulics and Pneumatics | 3 | 0 | 3 | 4 |
| | | | | | | MEE344 | Industrial and Residential Energy Efficiency | 3 | 0 | 3 | 4 |
| | | | | | | MEE346 | Robotics | 3 | 0 | 3 | 4 |

| Social Elective Courses | | | | | Social Elective Courses | | | | | | |
|-------------------------|----------------------------------|----|----|----|-------------------------|--------|----------------------------------|----|----|----|------|
| Code | Course Name | LT | LB | CR | ECTS | Code | Course Name | LT | LB | CR | ECTS |
| ESC301 | Labour Law | 2 | 0 | 2 | 2 | ESC302 | Research and Presentation Skills | 2 | 0 | 2 | 2 |
| ESC303 | Patent and Industrial Design | 2 | 0 | 2 | 2 | ESC306 | Management Systems | 2 | 0 | 2 | 2 |
| ESC307 | Communication Skills | 2 | 0 | 2 | 2 | ESC310 | Corporate Behavior | 2 | 0 | 2 | 2 |
| ESC309 | International Communication | 2 | 0 | 2 | 2 | ESC312 | Standardization | 2 | 0 | 2 | 2 |
| ESC311 | Critical and Analytical Thinking | 2 | 0 | 2 | 2 | ESC316 | Social Media | 2 | 0 | 2 | 2 |
| | | | | | | ESC318 | Contemporary Topics | 2 | 0 | 2 | 2 |

IV. CLASS

| 7th Semester Courses | | | | | 7th Semester Courses | | | | | | |
|----------------------|--|----------|----------|----------|----------------------|--------|--|----------|----------|----------|----------|
| Code | Course Name | LT | LB | CR | ECTS | Code | Course Name | LT | LB | CR | ECTS |
| MEE459 | Industrial Practice II | 0 | 0 | 0 | 5 | MEE406 | Graduation Project | 0 | 2 | 1 | 5 |
| MEE409 | Workplace Training and Practice ⁽¹⁾ | 5 | 15 | 12 | 25 | MEE409 | Workplace Training and Practice ⁽¹⁾ | 5 | 15 | 12 | 25 |
| MEE407 | Mechanical Engineering Laboratory ⁽²⁾ | 3 | 1 | 3 | 4 | MEE407 | Mechanical Engineering Laboratory ⁽²⁾ | 3 | 1 | 3 | 4 |
| MEE425 | Mechanical Systems Design ⁽²⁾ | 2 | 1 | 2 | 2 | MEE425 | Mechanical Systems Design ⁽²⁾ | 2 | 1 | 2 | 2 |
| MEE405 | Thermal Systems Design ⁽²⁾ | 2 | 1 | 2 | 2 | MEE405 | Thermal Systems Design ⁽²⁾ | 2 | 1 | 2 | 2 |
| CEC401 | Engineering Ethics ⁽²⁾ | 2 | 0 | 2 | 2 | CEC401 | Engineering Ethics ⁽²⁾ | 2 | 0 | 2 | 2 |
| | Technical Elective Course⁽³⁾ | 3 | 0 | 3 | 5 | | Technical Elective Course⁽³⁾ | 3 | 0 | 3 | 5 |

| | | | | | |
|--|---|----|----|----|----|
| | Technical Elective Course ⁽³⁾ | 3 | 0 | 3 | 5 |
| | Technical Elective Course ⁽³⁾ | 3 | 0 | 3 | 5 |
| | | | | | |
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| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | Total (if the course affixed with ⁽¹⁾ is taken) | 5 | 15 | 12 | 30 |
| | Total (if the courses affixed with ⁽²⁾ and ⁽³⁾ are taken) | 18 | 3 | 18 | 30 |

| | | | | | |
|--|---|----|----|----|----|
| | Technical Elective Course ⁽³⁾ | 3 | 0 | 3 | 5 |
| | Technical Elective Course ⁽³⁾ | 3 | 0 | 3 | 5 |
| | Technical Elective Course ⁽⁴⁾ | 3 | 0 | 3 | 5 |
| | Technical Elective Course ⁽⁴⁾ | 3 | 0 | 3 | 5 |
| | | | | | |
| | | | | | |
| | Total (if the course affixed with ⁽¹⁾ is taken) | 5 | 17 | 13 | 30 |
| | Total (if the courses affixed with ⁽²⁾ and ⁽³⁾ are taken) | 18 | 5 | 19 | 30 |
| | Total (if the courses affixed with ⁽³⁾ and ⁽⁴⁾ are taken) | 15 | 2 | 16 | 30 |

| Technical Elective Courses | | | | | |
|----------------------------|---|---|---|---|---|
| MEE4001 | Solar Energy Technologies | 3 | 0 | 3 | 5 |
| MEE4002 | Electric and Hybrid Vehicles | 3 | 0 | 3 | 5 |
| MEE4003 | Plumbing Systems Design | 3 | 0 | 3 | 5 |
| MEE4004 | Heat Exchangers | 3 | 0 | 3 | 5 |
| MEE4005 | Fuel Cell Fundamentals | 3 | 0 | 3 | 5 |
| MEE4006 | Heating Technology | 3 | 0 | 3 | 5 |
| MEE4007 | Thermal Insulation | 3 | 0 | 3 | 5 |
| MEE4008 | Gas Dynamics | 3 | 0 | 3 | 5 |
| MEE4009 | Hydraulic Machinery | 3 | 0 | 3 | 5 |
| MEE4010 | Modern Manufacturing Methods | 3 | 0 | 3 | 5 |
| MEE4011 | Computer Aided Manufacturing | 3 | 0 | 3 | 5 |
| MEE4012 | Materials Selection in Design and Manufacturing | 3 | 0 | 3 | 5 |
| MEE4013 | Materials Inspection Methods | 3 | 0 | 3 | 5 |
| MEE4014 | Die/Mold Design Techniques | 3 | 0 | 3 | 5 |
| MEE4015 | Powder Metallurgy | 3 | 0 | 3 | 5 |
| MEE4016 | Internal Combustion Engines | 3 | 0 | 3 | 5 |
| MEE4017 | Maintenance in Manufacturing | 3 | 0 | 3 | 5 |
| MEE4018 | Mechatronic Systems Design | 3 | 0 | 3 | 5 |
| MEE4019 | Composite Materials and Manufacturing Methods | 3 | 0 | 3 | 5 |
| MEE4020 | Applications of Finite Element Analysis | 3 | 0 | 3 | 5 |
| MEE4021 | Advanced Strength | 3 | 0 | 3 | 5 |
| MEE4022 | Quality Control in Manufacturing | 3 | 0 | 3 | 5 |
| MEE4023 | Biofluid Dynamics | 3 | 0 | 3 | 5 |
| MEE4024 | Vehicle Dynamics and Control | 3 | 0 | 3 | 5 |
| MEE4025 | Inventive Problem Solving in Engineering Design | 3 | 0 | 3 | 5 |
| MEE4026 | Microsystem – MEMS Design | 3 | 0 | 3 | 5 |
| MEE4027 | Introduction to Exergy | 3 | 0 | 3 | 5 |
| MEE4028 | Machine Technology | 3 | 0 | 3 | 5 |
| MEE4029 | Nanomaterials | 3 | 0 | 3 | 5 |
| MEE4030 | Vehicle Technologies | 3 | 0 | 3 | 5 |
| MEE4031 | Air Conditioning and Ventilation Systems Design | 3 | 0 | 3 | 5 |
| MEE4032 | Thermic Turbo Machines | 3 | 0 | 3 | 5 |
| MEE4033 | Steam Boilers | 3 | 0 | 3 | 5 |
| MEE4034 | Computational Fluid Dynamics | 3 | 0 | 3 | 5 |
| MEE4035 | Introduction to Bioengineering | 3 | 0 | 3 | 5 |
| MEE4036 | Thermo-Chemical Processes | 3 | 0 | 3 | 5 |
| MEE4037 | Principles of Energy Conversion | 3 | 0 | 3 | 5 |
| MEE4038 | Heating Systems Design | 3 | 0 | 3 | 5 |
| MEE4039 | Surface Treatments | 3 | 0 | 3 | 5 |
| MEE4040 | Welding Technologies | 3 | 0 | 3 | 5 |
| MEE4041 | Mechanical Vibrations | 3 | 0 | 3 | 5 |
| MEE4042 | Heat Treatments | 3 | 0 | 3 | 5 |
| MEE4043 | Introduction to Biomechanics | 3 | 0 | 3 | 5 |
| MEE4044 | Agricultural Machinery | 3 | 0 | 3 | 5 |
| MEE4045 | Metal Forming Technologies | 3 | 0 | 3 | 5 |
| MEE4046 | Construction Techniques | 3 | 0 | 3 | 5 |
| MEE4047 | Tribology | 3 | 0 | 3 | 5 |
| MEE4048 | Manufacturing Planning | 3 | 0 | 3 | 5 |
| MEE4049 | Pumps | 3 | 0 | 3 | 5 |
| MEE4050 | Mechanical Measurements and Metrology | 3 | 0 | 3 | 5 |
| MEE4051 | Pipeline Engineering | 3 | 0 | 3 | 5 |
| MEE4052 | Digital Control System Design | 3 | 0 | 3 | 5 |
| MEE4053 | Failure Analysis | 3 | 0 | 3 | 5 |
| MEE4054 | Microprocessors in Engineering | 3 | 0 | 3 | 5 |
| MEE4055 | Transport Techniques | 3 | 0 | 3 | 5 |
| MEE4056 | Railway Vehicle Engineering | 3 | 0 | 3 | 5 |
| MEE4057 | Precision Machine Design | 3 | 0 | 3 | 5 |
| MEE4058 | Additive Manufacturing | 3 | 0 | 3 | 5 |
| MEE4059 | Elevators and Escalators | 3 | 0 | 3 | 5 |
| MEE4060 | Medical Device Design | 3 | 0 | 3 | 5 |

* Students who take the courses with ⁽¹⁾ in 7th semester will not take the courses with ⁽²⁾ and ⁽³⁾ in the same semester. And the students who take the courses with ⁽²⁾ and ⁽³⁾ will not take the courses with ⁽¹⁾.

* Students who take the courses with ⁽¹⁾ in 7th semester have to take only the courses with ⁽²⁾ ve ⁽³⁾ in the 8th semester.

* Students who take the courses with ⁽²⁾ and ⁽³⁾ in 7th semester have two choices for the 8th semester. They can take either the courses with ⁽¹⁾ or with ⁽³⁾ and ⁽⁴⁾ in 8th semester.

* Students who fail the courses with ⁽¹⁾ in 8th semester can take the 7th semester courses with ⁽¹⁾ or the courses with ⁽²⁾ and ⁽³⁾ in following years.

* Students who fail the courses with ⁽¹⁾ in 7th semester can take the 7th semester courses with ⁽¹⁾ or the courses with ⁽²⁾ and ⁽³⁾ in following years.

Note-1: Courses with ⁽³⁾ and ⁽⁴⁾ refer to the "Technical Elective Courses" that the students have to take in 4th grade.

Note-2: All students have to take "MEE459-Industrial Practice II" in 7th semester and "MEE406-Graduation Project" in 8th semester.

Note-3: Students must be successful in "CEC305-Occupational Health and Safety I" and "CEC306-Occupational Health and Safety II" in order to take "MEE409-Workplace Training", "MEE423-Workplace Application" and "MEE407-Mechanical Engineering Laboratory".

| İŞYERİ UYGULAMASI VE EĞİTİMİ DERSLERİNİN 7. YARIYILDA ALINMASI HALİNDEKİ DERS İSTATİSTİKLERİ | | | | | |
|--|------------------------------------|-----|----|---|--------|
| 1 | Toplam Ulusal Kredi | 173 | 8 | Toplam Ulusal Kredi / 128 Kredi Sınırı | 135,2% |
| 2 | Toplam AKTS Kredi | 240 | 9 | Toplam AKTS Kredi / Tplm Ulusal Kredi | 138,7% |
| 3 | Seçmeli Derslerin Toplam Kredisi | 37 | 10 | Seçmeli Derslerin Tplm Kr / Tpl Ulusal Kr | 21,4% |
| 4 | Teorik Derslerin Toplam Saati | 158 | 11 | Teorik Derslerin Tplm Saati / Tplm Ders Saati | 80,2% |
| 5 | Uygulama Derslerin Toplam Saati | 39 | 12 | Uyg. Derslerin Tplm Saati / Tplm Ders Saati | 19,8% |
| 6 | İngilizce Derslerin Toplam Kredisi | 173 | 13 | Toplam İngilizce Kredisi/Toplam Ulusal Kredi | 100,0% |
| 7 | Seçmeli Ders AKTS | 60 | 14 | Seçmeli ders AKTS/Toplam AKTS | 25,0% |
| | | | 15 | Temel Bilim Dersleri Toplam Kredisi | 40 |

| İŞYERİ UYGULAMASI VE EĞİTİMİ DERSLERİNİN 7. VE 8. YARIYILLARDA ALINMAMASI HALİNDEKİ DERS İSTATİSTİKLERİ | | | | | |
|---|------------------------------------|-----|----|---|--------|
| 1 | Toplam Ulusal Kredi | 176 | 8 | Toplam Ulusal Kredi / 128 Kredi Sınırı | 137,5% |
| 2 | Toplam AKTS Kredi | 240 | 9 | Toplam AKTS Kredi / Tplm Ulusal Kredi | 136,4% |
| 3 | Seçmeli Derslerin Toplam Kredisi | 40 | 10 | Seçmeli Derslerin Tplm Kr / Tpl Ulusal Kr | 22,7% |
| 4 | Teorik Derslerin Toplam Saati | 168 | 11 | Teorik Derslerin Tplm Saati / Tplm Ders Saati | 87,5% |
| 5 | Uygulama Derslerin Toplam Saati | 24 | 12 | Uyg. Derslerin Tplm Saati / Tplm Ders Saati | 12,5% |
| 6 | İngilizce Derslerin Toplam Kredisi | 176 | 13 | Toplam İngilizce Kredisi/Toplam Ulusal Kredi | 100,0% |
| 7 | Seçmeli Ders AKTS | 60 | 14 | Seçmeli ders AKTS/Toplam AKTS | 25,0% |
| | | | 15 | Temel Bilim Dersleri Toplam Kredisi | 40 |

| İŞYERİ UYGULAMASI VE EĞİTİMİ DERSLERİNİN 8. YARIYILDA ALINMASI HALİNDEKİ DERS İSTATİSTİKLERİ | | | | | |
|--|------------------------------------|-----|----|---|--------|
| 1 | Toplam Ulusal Kredi | 173 | 8 | Toplam Ulusal Kredi / 128 Kredi Sınırı | 135,2% |
| 2 | Toplam AKTS Kredi | 240 | 9 | Toplam AKTS Kredi / Tplm Ulusal Kredi | 138,7% |
| 3 | Seçmeli Derslerin Toplam Kredisi | 37 | 10 | Seçmeli Derslerin Tplm Kr / Tpl Ulusal Kr | 21,4% |
| 4 | Teorik Derslerin Toplam Saati | 158 | 11 | Teorik Derslerin Tplm Saati / Tplm Ders Saati | 80,2% |
| 5 | Uygulama Derslerin Toplam Saati | 39 | 12 | Uyg. Derslerin Tplm Saati / Tplm Ders Saati | 19,8% |
| 6 | İngilizce Derslerin Toplam Kredisi | 173 | 13 | Toplam İngilizce Kredisi/Toplam Ulusal Kredi | 100,0% |
| 7 | Seçmeli Ders AKTS | 60 | 14 | Seçmeli ders AKTS/Toplam AKTS | 25,0% |
| | | | 15 | Temel Bilim Dersleri Toplam Kredisi | 40 |