|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **LECTURE CODE** | **LECTURE** | **LECTURE CREDIT INFORMATION** | | | | | **APPLICANT DEPARTMENT** |
| **INDUSTRIAL ENGINEERING** | | | | | | | **ECONOMY DEP.** |
| **1  Fall Semester** | | **Credits** | **Theory** | **Practice** | **Lab** | **ECTS** |  |
| CS 101 | Introduction to Programming I | 4 | 3 | 0 | 2 | 6 | OBLIGATORY |
| ENEN 101 | English for Engineers I | 4 | 4 | 0 | 0 | 4 | EQUIVALENT (ENGE 101) |
| GEN 100 | Introduction to Engineering and Ethics | 0 | 1 | 0 | 0 | 0 | OBLIGATORY |
| MATH 101 | Calculus I | 5 | 4 | 2 | 0 | 6 | EQUIVALENT (Math 1111) |
| PHYS 101 | Physics I | 3 | 3 | 0 | 0 | 4 | OBLIGATORY |
| PHYS 101L | Physics Laboratory I | 1 | 0 | 0 | 2 | 2 | OBLIGATORY |
| CHEM 101 | Chemistry | 4 | 3 | 2 | 0 | 6 | OBLIGATORY |
| TURK 101 | Turkish I | 2 | 2 | 0 | 0 | 2 | EQUIVALENT |
| **2  Spring Semester** | | **Credits** | **Theory** | **Practice** | **Lab** | **ECTS** |  |
| CS 102 | Introduction to Programming II | 4 | 3 | 0 | 2 | 6 | OBLIGATORY |
| ENEN 102 | English for Engineers II | 4 | 4 | 0 | 0 | 4 | EQUIVALENT (ENGE 102) |
| MATH 102 | Calculus II | 5 | 4 | 2 | 0 | 6 | EQUIVALENT (Math 1112) |
| PHYS 102 | Physics II | 3 | 3 | 0 | 0 | 4 | OBLIGATORY |
| PHYS 102L | Physics Laboratory II | 1 | 0 | 0 | 2 | 2 | OBLIGATORY |
| BIO 102 | Biology | 3 | 3 | 0 | 0 | 4 | OBLIGATORY |
| TURK 102 | Turkish II | 2 | 2 | 0 | 0 | 2 | EQUIVALENT |
| IE 102 | Introduction to Industrial Engineering | 2 | 2 | 0 | 0 | 2 | OBLIGATORY |
| **3  Fall Semester** | | **Credits** | **Theory** | **Practice** | **Lab** | **ECTS** |  |
| IE 201 | Operations Research I | 3 | 3 | 0 | 0 | 5 | OBLIGATORY |
| IE 203 | Principles of Microeconomics | 4 | 3 | 2 | 0 | 5 | EQUIVALENT (ECON 1201) |
| NDAE XXX | Non-Departmental Elective | 3 | 3 | 0 | 0 | 4 |  |
| HIST 101 | Atatürk's Principles and Revolution History  I | 2 | 2 | 0 | 0 | 2 | EQUIVALENT |
| GEN 200 | Engineering Economics | 3 | 3 | 0 | 0 | 4 | OBLIGATORY |
| MATH 201 | Linear Algebra | 4 | 4 | 0 | 0 | 5 | OBLIGATORY |
| MATH 211 | Probability and Statistics for Engineers | 3 | 3 | 0 | 0 | 5 | EQUIVALENT (STAT 1201) |
| **4  Spring Semester** | | **Credits** | **Theory** | **Practice** | **Lab** | **ECTS** |  |
| IE 212 | Statistical Models | 3 | 3 | 0 | 0 | 5 | EQUIVALENT (STAT 1202) |
| IE 202 | Operations Research II | 3 | 3 | 0 | 0 | 5 | OBLIGATORY |
| ME 112 | Computer-Aided  Technical Drawing | 3 | 3 | 0 | 0 | 4 | OBLIGATORY |
| DAE XXX | Area Elective | 3 | 3 | 0 | 0 | 5 |  |
| HIST 102 | Atatürk's Principles and Revolution History  II | 2 | 2 | 0 | 0 | 2 | EQUIVALENT |
| MATH 202 | Differential Equations | 4 | 4 | 0 | 0 | 5 | OBLIGATORY |
| NAE XXX | Non-Area Elective | 3 | 3 | 0 | 0 | 4 |  |
| **5  Fall Semester** | | **Credits** | **Theory** | **Practice** | **Lab** | **ECTS** |  |
| IE 381 | Simulation | 4 | 3 | 0 | 2 | 7 | OBLIGATORY |
| IE 361 | Production Planning and Control | 3 | 3 | 0 | 0 | 6 | OBLIGATORY |
| IE 301 | Special Topics in Industrial Engineering | 2 | 2 | 0 | 0 | 2 | OBLIGATORY |
| NDAE XXX | Non-Departmental Elective | 3 | 3 | 0 | 0 | 4 |  |
| DAE XXX | Area Elective | 3 | 3 | 0 | 0 | 6 |  |
| IE 291 | Summer Internship I | 0 | 0 | 0 | 0 | 0 | OBLIGATORY |
| MATH 300 | Numerical Analysis for Engineering | 4 | 4 | 0 | 0 | 5 | OBLIGATORY |
| **6  Spring Semester** | | **Credits** | **Theory** | **Practice** | **Lab** | **ECTS** |  |
| IE 312 | Engineering Quality Control | 3 | 3 | 0 | 0 | 7 | OBLIGATORY |
| IE 304 | Facility Layout and Design | 3 | 3 | 0 | 0 | 7 | OBLIGATORY |
| IE 303 | Operations Research III | 3 | 3 | 0 | 0 | 6 | OBLIGATORY |
| DAE XXX | Area Elective | 3 | 3 | 0 | 0 | 6 |  |
| NAE XXX | Non-Area Elective | 3 | 3 | 0 | 0 | 4 |  |
| **7  Fall Semester** | | **Credits** | **Theory** | **Practice** | **Lab** | **ECTS** |  |
| DAE XXX | Area Elective | 3 | 3 | 0 | 0 | 6 |  |
| DAE XXX | Non-Area Elective | 3 | 3 | 0 | 0 | 6 |  |
| NDAE XXX | Non-Departmental Elective | 3 | 3 | 0 | 0 | 6 |  |
| IE 391 | Summer Internship II | 0 | 0 | 0 | 0 | 0 | OBLIGATORY |
| ENEN 401 | Technical Writing and Presentation | 3 | 3 | 0 | 0 | 3 | OBLIGATORY |
| GEN 401 | Worker Health and Work Safety I | 2 | 2 | 0 | 0 | 2 | OBLIGATORY |
| IE 491 | Senior Project I | 0 | 0 | 2 | 0 | 2 | OBLIGATORY |
| NAE XXX | Non-Area Elective | 3 | 3 | 0 | 0 | 5 |  |
| **8  Spring Semester** | | **Credits** | **Theory** | **Practice** | **Lab** | **ECTS** |  |
| NAE XXX | Non-Area Elective | 3 | 3 | 0 | 0 | 5 |  |
| GEN 402 | Worker Health and Work Safety II | 2 | 2 | 0 | 0 | 2 | OBLIGATORY |
| IE 492 | Senior Project II | 0 | 0 | 6 | 0 | 6 | OBLIGATORY |
| GEN 404 | Inovation and Entrepreneurship | 2 | 2 | 0 | 0 | 2 | OBLIGATORY |
| DAE XXX | Area Elective | 3 | 3 | 0 | 0 | 5 |  |
| DAE XXX | Area Elective | 3 | 3 | 0 | 0 | 5 |  |
| NDAE XXX | Non-Area Elective | 3 | 3 | 0 | 0 | 5 |  |