



NEAR EAST UNIVERSITY

**DEPARTMENT OF Industrial
Engineering**

Course and Program Outcomes Matrix

2021-2022



FACULTY OF ENGINEERING

DEPARTMENT OF INDUSTRIAL ENGINEERING

1st Semester

2nd Semester

| CODE | COURSE NAME | DERS ADI | C/E | T | P | C | E | | CODE | COURSE NAME | DERS ADI | C/E | T | P | C | E |
|---------|--|--|-----|---|---|---|---|--|---------|---------------------------------|---|-----|---|---|---|---|
| PHY101 | General Physics I | Genel Fizik I | C | 3 | 2 | 4 | 6 | | PHY102 | General Physics II | Genel Fizik II | C | 3 | 2 | 4 | 6 |
| CHM101 | General Chemistry I | Genel Kimya I | C | 3 | 2 | 4 | 6 | | MTH102 | Mathematics II | Matematik II | C | 4 | 0 | 4 | 6 |
| MTH101 | Mathematics I | Matematik I | C | 4 | 0 | 4 | 6 | | ECC 103 | Engineering Drawing | Teknik çizim | C | 2 | 2 | 3 | 5 |
| ENG101 | English I | İngilizce I | C | 3 | 0 | 3 | 3 | | ENG 102 | English II | İngilizce II | C | 3 | 0 | 3 | 3 |
| IND 101 | Fundamentals of Industrial Engineering | Endüstri Mühendisliğinin Temelleri | C | 4 | 0 | 3 | 5 | | YİT102 | Turkish for Foreign Students II | Yabancı Uyruklu Öğrenciler için Türkçe II | C | 2 | 0 | 2 | 2 |
| YİT101 | Turkish for Foreign Students I | Yabancı Uyruklu Öğrenciler için Türkçe I | C | 2 | 0 | 2 | 2 | | TUR 102 | Turkish Language II | Türk Dili II | C | 0 | 0 | | |
| TUR 101 | Turkish Language I | Türk Dili I | C | 2 | 0 | | | | CAR122 | Career Planning | Kariyer planlaması | C | 2 | 0 | 0 | 2 |

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|--------------------------|--------------------|---------------------|---|---|---|----|----|--|--------------------------|---|--|---|---|---|----|----|
| CAM101 | Campus Orientation | Kampüs Oryantasyonu | C | 2 | 0 | 0 | 2 | | IND 102 | Information Technologies for Industrial Engineering | Endüstri Mühendisliği için Bilgi Teknolojileri | C | 4 | 0 | 3 | 6 |
| Total | | | | | | 20 | 30 | | Total | | | | | | 19 | 30 |
| 3 rd Semester | | | | | | | | | 4 th Semester | | | | | | | |

| CODE | COURSE NAME | DERS ADI | C/E | T | P | C | E | | CODE | COURSE NAME | DERS ADI | C/E | T | P | C | E |
|---------|---|--------------------------------------|-----|---|---|---|---|--|---------|--|---------------------------------------|-----|---|---|---|---|
| AIT 101 | Atatürk Principles and the History of Turkish Revolution I | Atatürk İlkeleri ve İnkılap Tarihi I | C | 2 | 0 | | | | AIT 104 | Principles of Atatürk and the History of Turkish Revolution II | Atatürk İlkeleri ve İnkılap Tarihi II | C | 2 | 0 | 2 | 2 |
| AIT 103 | Principles of Atatürk and the History of Turkish Revolution I | Atatürk İlkeleri ve İnkılap Tarihi I | C | 2 | 0 | 2 | 2 | | ECC 108 | Object Oriented Programming | Nesne yönelimli programlama | C | 2 | 0 | 3 | 5 |
| ECC 101 | Introduction to Computers and Programming | Bilgisayar ve Programlamaya Giriş | C | 2 | 2 | 3 | 5 | | IND 202 | Graphing & Optimization Principles | Grafik ve Optimizasyon İlkeleri | C | 2 | 2 | 3 | 6 |
| IND 201 | Elements of Linear Algebra | Lineer Cebirin Elemanları | C | 4 | 0 | 3 | 6 | | IND 204 | Statistics II | İstatistik II | C | 4 | 0 | 3 | 6 |
| IND 203 | Statistics I | İstatistik I | C | 4 | 0 | 3 | 6 | | IND 206 | Production & Operations Management II | Üretim ve Operasyon Yönetimi II | C | 4 | 0 | 3 | 6 |

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|--------------------------|--------------------------------------|--------------------------------|---|---|---|----|----|--|--------------------------|------------------------|------------------------|---|---|---|----|----|
| IND 205 | Production & Operations Management I | Üretim ve Operasyon Yönetimi I | C | 4 | 0 | 3 | 6 | | IND 208 | Factory Internship | Fabrika Stajı | C | 4 | 0 | 0 | 1 |
| NTE | Non-Technical Electives | Teknik Olmayan Seçmeli Dersler | E | 3 | 0 | 3 | 5 | | NTE | Non-Technical Elective | Teknik Olmayan Seçmeli | E | 3 | | 3 | 4 |
| Total | | | | | | 17 | 30 | | | | | | | | 17 | 30 |
| 5 th Semester | | | | | | | | | 6 th Semester | | | | | | | |

| CODE | COURSE NAME | DERS ADI | C/E | T | P | C | E | | CODE | COURSE NAME | DERS ADI | C/E | T | P | C | E |
|--------------------------|-----------------------------|------------------------------|-----|---|---|----|----|--|--------------------------|-------------------------------|---------------------------|-----|---|---|----|----|
| IND 301 | Analysis of Service Systems | Hizmet Sistemlerinin Analizi | C | 4 | 0 | 4 | 7 | | IND 302 | Entrepreneurship & Innovation | Girişimcilik ve İnovasyon | C | 4 | 0 | 4 | 5 |
| IND 303 | Operational Research I | Yöneylem Araştırması I | C | 4 | 0 | 4 | 7 | | IND 304 | Operational Research I | Yöneylem Araştırması I | C | 4 | 0 | 4 | 6 |
| IND 31X | Technical Elective | Teknik Seçmeli | E | 4 | 0 | 3 | 6 | | IND 31X | Technical Elective | Teknik Seçmeli | E | 4 | 0 | 3 | 6 |
| IND 31X | Technical Elective | Teknik Seçmeli | E | 4 | 0 | 3 | 6 | | IND 31X | Technical Elective | Teknik Seçmeli | E | 4 | 0 | 3 | 6 |
| NTE | Non-Technical Elective | Teknik Olmayan Seçmeli | E | 3 | 0 | 3 | 4 | | NTE | Nontechnical Elective | Teknik Olmayan Seçmeli | E | 3 | 0 | 3 | 6 |
| | | | | | | | | | IND 306 | Service Internship | Hizmet Stajı | C | 0 | 0 | 0 | 1 |
| Total | | | | | | 17 | 30 | | Total | | | | | | 17 | 30 |
| 7 th Semester | | | | | | | | | 8 th Semester | | | | | | | |

| CODE | COURSE NAME | DERS ADI | C/E | T | P | C | E | | CODE | COURSE NAME | DERS ADI | C/E | T | P | C | E |
|---------|--------------------------------|---------------------------------|-----|---|---|----|----|--|---------|------------------------|------------------------|-----|---|---|----|----|
| IND 401 | Transforming Ideas to Projects | Fikirleri Projelere Dönüştürmek | C | 2 | 2 | 4 | 7 | | IND 402 | Strategy of Quality | Kalite Stratejisi | C | 4 | 0 | 4 | 4 |
| IND 403 | Auditing Productivity | Verimliliği Denetleme | C | 3 | 2 | 4 | 7 | | IND 404 | Designing the Factory | Fabrikayı Tasarlamak | C | 4 | 0 | 4 | 4 |
| IND 41X | Technical Elective | Teknik Seçmeli | E | 3 | 0 | 3 | 6 | | IND 41X | Technical Elective | Teknik Seçmeli | E | 4 | 0 | 3 | 4 |
| IND 41X | Technical Elective | Teknik Seçmeli | E | 3 | 0 | 3 | 6 | | IND 41X | Technical Elective | Teknik Seçmeli | E | 4 | 0 | 3 | 4 |
| NTE | Non-Technical Elective | Teknik Olmayan Seçmeli | E | 3 | 0 | 3 | 4 | | NTE | Non-Technical Elective | Teknik Olmayan Seçmeli | E | 3 | 0 | 3 | 4 |
| | | | | | | | | | IND 400 | Graduation Project | Mezuniyet projesi | C | 3 | 0 | 3 | 10 |
| Total | | | | | | 17 | 30 | | Total | | | | | | 20 | 30 |

| | |
|------------------------|-----|
| Total No. of Courses | 50 |
| Total No. Of Electives | 14 |
| Total No. Of Credits | 144 |

| | |
|-------------------------|-----|
| Percentage of Electives | 28 |
| Total ECTS | 240 |

Key:

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|--|-------------------------------|--------------------------|------------|---------|
| C/E: Compulsory/Elective (Please indicate) | T: Hours of Theoretical Study | P: Hours of Practice/Lab | C: Credits | E: ECTS |
|--|-------------------------------|--------------------------|------------|---------|