## ENDÜSTRİ MÜHENDİSLİĞİ BÖLÜMÜ LİSANS PROGRAMI'NDA ÇAP YAPACAK ELEKTRİK-ELEKTRONİK MÜHENDİSLİĞİ BÖLÜMÜ LİSANS PROGRAMI ÖĞRENCİLERİ İÇİN DERS PLANI

| ENDÜSTRİ MÜHENDİSLİĞİ BÖLÜMÜ LİSANS PROGRAMI DERS PLANI | | | ELEKTRİK-ELEKRONİK MÜHENDİSLİĞİ BÖLÜMÜ LİSANS PROGRAMI DERS PLANINDAKİ EŞDEĞER DERSLER | | | ÇAP ÖĞRENCİSİNİN ENDÜSTRİ MÜHENDİSLİĞİ BÖLÜMÜ LİSANS PROGRAMI DERS PLANINDAN ALMAK ZORUNDA OLDUĞU DERSLER | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **1. YARIYIL** | | | **1. YARIYIL** | | | **1. YARIYIL** | | | | | |
| **DERS KODU** | **DERS ADI** | **AKTS** | **DERS KODU** | **DERS ADI** | **AKTS** | **DERS KODU** | **DERS ADI** | **T** | **U** | **L** | **AKTS** |
| IE1001 | Introduction to Computing | 6 | | | | IE1001 | Introduction to Computing | 2 | 2 | 0 | 6 |
| IE1601 | Engineering Graphics | 5 | | | | IE1601 | Engineering Graphics | 2 | 2 | 0 | 5 |
| IE1801 | Engineering Orientation | 2 | | | | IE1801 | Engineering Orientation | 2 | 0 | 0 | 2 |
| MCB1001 | Calculus I | 7 | MCB1001 | Calculus I | 7 | | | | | | |
| PHY1001 | Physics I | 7 | PHY1001 | Physics I | 7 | | | | | | |
| ATA1001 | Principles of Atatürk and History of Revolution I | 2 | ATA1001 | Principles of Atatürk and History of Revolution I | 2 | | | | | | |
| TR1001 | Turkish I | 2 | TR1001 | Turkish I | 2 | | | | | | |
| IE1702 | Academic English for Industrial Engineering I | 3 | EE1011 | Academic English for Electrical and Electronics Engineering I | 3 | | | | | | |
| **2. YARIYIL** | | | **2. YARIYIL** | | | **2. YARIYIL** | | | | | |
| **DERS KODU** | **DERS ADI** | **AKTS** | **DERS KODU** | **DERS ADI** | **AKTS** | **DERS KODU** | **DERS ADI** | **T** | **U** | **L** | **AKTS** |
| IE2002 | Introduction to Programming | 5 | EE1001 | Computer Programming | 8 | | | | | | |
| IE2401 | Introduction to Industrial Engineering | 3 | | | | IE2401 | Introduction to Industrial Engineering | 2 | 0 | 0 | 3 |
| IE2602 | General Chemistry | 5 | | | | IE2602 | General Chemistry | 2 | 0 | 2 | 5 |
| MCB1002 | Calculus II | 7 | MCB1002 | Calculus II | 7 | | | | | | |
| PHY2001 | Physics II | 7 | PHY2001 | Physics II | 7 | | | | | | |
| ATA2001 | Principles of Atatürk and History of Revolution II | 2 | ATA2001 | Principles of Atatürk and History of Revolution II | 2 | | | | | | |
| TR2001 | Turkish II | 2 | TR2001 | Turkish II | 2 | | | | | | |
| IE2703 | Academic English for Industrial Engineering II | 3 | EE2011 | Academic English for Electrical and Electronics Engineering II | 3 | | | | | | |
| **3. YARIYIL** | | | **3. YARIYIL** | | | **3. YARIYIL** | | | | | |
| **DERS KODU** | **DERS ADI** | **AKTS** | **DERS KODU** | **DERS ADI** | **AKTS** | **DERS KODU** | **DERS ADI** | **T** | **U** | **L** | **AKTS** |
| IE3003 | Object Oriented Programming | 5 | | | | IE3003 | Object Oriented Programming | 2 | 2 | 0 | 5 |
| IE3101 | Introduction to Probability | 6 | | | | IE3101 | Introduction to Probability | 3 | 2 | 0 | 6 |
| IE3501 | Economics | 4 | | | | IE3501 | Economics | 3 | 0 | 0 | 4 |
| IE3502 | Financial and Cost Accounting | 4 | | | | IE3502 | Financial and Cost Accounting | 3 | 0 | 0 | 4 |
| IE3603 | Materials Science | 4 | | | | IE3603 | Materials Science | 2 | 0 | 0 | 4 |
| MCB1004 | Linear Algebra | 6 | MCB1004 | Linear Algebra | 6 | | | | | | |
| | Elective (minimum 2 AKTS) | 2 | | Elective | 2 | | | | | | |
| **4. YARIYIL** | | | **4. YARIYIL** | | | **4. YARIYIL** | | | | | |
| **DERS KODU** | **DERS ADI** | **AKTS** | **DERS KODU** | **DERS ADI** | **AKTS** | **DERS KODU** | **DERS ADI** | **T** | **U** | **L** | **AKTS** |
| IE4004 | Numerical Analysis for Industrial Engineers | 5 | MCB1008 | Numerical Methods | 5 | | | | | | |
| IE4102 | Statistics for Engineers | 6 | | | | IE4102 | Statistics for Engineers | 3 | 2 | 0 | 6 |
| IE4201 | Operations Research I | 7 | | | | IE4201 | Operations Research I | 3 | 2 | 0 | 7 |
| IE4503 | Engineering Economics | 6 | | | | IE4503 | Engineering Economics | 2 | 2 | 0 | 6 |
| | Departmental Elective (minimum 4 AKTS) | 4 | | | | | Departmental Elective (minimum 4 AKTS) | | | | 4 |
| | Elective (minimum 2 AKTS) | 2 | | Elective | 2 | | | | | | |
| | | | | | | | | | | | |
| **5. YARIYIL** | | | **5. YARIYIL** | | | **5. YARIYIL** | | | | | |
| **DERS KODU** | **DERS ADI** | **AKTS** | **DERS KODU** | **DERS ADI** | **AKTS** | **DERS KODU** | **DERS ADI** | **T** | **U** | **L** | **AKTS** |
| IE5202 | Operations Research II | 7 | | | | IE5202 | Operations Research II | 3 | 2 | 0 | 7 |
| IE5403 | Facilities Design and Planning | 7 | | | | IE5403 | Facilities Design and Planning | 3 | 2 | 0 | 7 |
| IE5802 | Industrial Training I | 3 | | | | IE5802 | Industrial Training I | | | | 3 |
| | Departmental Elective (minimum 13 AKTS) | 13 | | | | | Departmental Elective (minimum 13 AKTS) | | | | 13 |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| **6. YARIYIL** | | | **6. YARIYIL** | | | **6. YARIYIL** | | | | | |
| **DERS KODU** | **DERS ADI** | **AKTS** | **DERS KODU** | **DERS ADI** | **AKTS** | **DERS KODU** | **DERS ADI** | **T** | **U** | **L** | **AKTS** |
| IE6103 | Design of Experiments | 6 | | | | IE6103 | Design of Experiments | 3 | 2 | 0 | 6 |
| IE6404 | Production Planning and Control | 7 | | | | IE6404 | Production Planning and Control | 3 | 2 | 0 | 7 |
| | Departmental Elective (minimum 17 AKTS) | 17 | | | | | Departmental Elective (minimum 17 AKTS) | | | | 17 |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| **7. YARIYIL** | | | **7. YARIYIL** | | | **7. YARIYIL** | | | | | |
| **DERS KODU** | **DERS ADI** | **AKTS** | **DERS KODU** | **DERS ADI** | **AKTS** | **DERS KODU** | **DERS ADI** | **T** | **U** | **L** | **AKTS** |
| IE7203 | Simulation Modelling | 6 | | | | IE7203 | Simulation Modelling | 3 | 2 | 0 | 6 |
| IE7405 | Supply Chain Management | 5 | | | | IE7405 | Supply Chain Management | 3 | 0 | 0 | 5 |
| IE7803 | Industrial Training II | 3 | | | | IE7803 | Industrial Training II | | | | 3 |
| | Departmental Elective (minimum 16 AKTS) | 16 | | | | | Departmental Elective (minimum 16 AKTS) | | | | 16 |
| **8. YARIYIL** | | | **8. YARIYIL** | | | **8. YARIYIL** | | | | | |
| **DERS KODU** | **DERS ADI** | **AKTS** | **DERS KODU** | **DERS ADI** | **AKTS** | **DERS KODU** | **DERS ADI** | | | | **AKTS** |
| IE8406 | Quality Engineering | 5 | | | | IE8406 | Quality Engineering | 2 | 2 | 0 | 5 |
| IE8900 | Graduation Project | 8 | | | | IE8900 | Graduation Project | 4 | 4 | 0 | 8 |
| | Departmental Elective (minimum 17 AKTS) | 17 | | | | | Departmental Elective (minimum 17 AKTS) | | | | 17 |
| **TOPLAM** | | **249** | **TOPLAM** | | | **TOPLAM** | | | | | **187** |

**DİKKAT: ÇAP öğrencisinin ikinci anadal ders planından alması gereken derslerin AKTS toplamı en az 60 olmalıdır.**

| SEÇİMLİK ALAN DERSLERİ (SA) | | | EŞDEĞER SEÇİMLİK ALAN DERSLERİ | | |
|---|---|---|---|---|---|
| **DERS KODU** | **DERS ADI** | **AKTS** | **DERS KODU** | **DERS ADI** | **AKTS** |
| IE0005 | Introduction to Fuzzy Modelling | 5 | | | |
| IE0006 | Data Structures and Programming | 5 | | | |
| IE0104 | Introduction to Data Mining | 6 | | | |
| IE0204 | Case Studies in Mathematical Modelling | 6 | | | |
| IE0205 | Introduction to Decision Analysis | 6 | | | |
| IE0301 | Systems Analysis | 5 | | | |
| IE0302 | Enterprise Resource Planning | 5 | | | |
| IE0303 | Management Information Systems | 5 | | | |
| IE0402 | Ergonomics | 6 | | | |
| IE0407 | Work Study | 6 | | | |
| IE0408 | Scheduling Applications in Manufacturing and Services | 6 | | | |
| IE0409 | Project Management | 6 | | | |
| IE0410 | Quality Planning and Analysis | 5 | | | |
| IE0504 | Strategic Management | 5 | | | |
| IE0505 | Marketing Management | 5 | | | |
| IE0506 | Introduction to Business Management | 4 | | | |
| IE0507 | Organizational Behaviour and Human Resources | 4 | | | |
| IE0508 | Labor Law | 4 | | | |
| IE0604 | Computer Integrated Manufacturing Systems | 5 | | | |
| IE0605 | Advanced Manufacturing Systems | 6 | | | |
| IE0606 | Manufacturing Techniques | 5 | | | |
| IE0607 | Industrial Applications of Nanotechnology | 6 | | | |
| IE0608 | Introduction to Renewable Energy | 6 | | | |
| IE0609 | Introduction to Energy Management | 5 | | | |
| IE0701 | Academic Writing and Presentation Skills | 5 | | | |
| IE0901 | Special Topics in Industrial Engineering | 2 | | | |
| IE0411 | Logistics Systems | 6 | | | |
| IE0902 | Case Studies in Industrial Engineering | 3 | | | |
| IE0007 | Advanced Excel Applications | 5 | | | |
| IE0412 | Advanced Project Management | 6 | | | |
| IE0304 | Human Computer Interaction and User Experience | 6 | | | |