# Doğuş Üniversitesi
## MÜHENDİSLİK FAKÜLTESİ
## BİLGİSAYAR MÜHENDİSLİĞİ (İNGİLİZCE)
## BİLGİSAYAR MÜHENDİSLİĞİ (İNGİLİZCE)

### 1.Yarıyıl Ders Planı

| Ders Kodu | Ders Adı | T+U+L | Zorunlu/Seçmeli | AKTS |
|---|---|---|---|---|
| COME 001 | Internship I | 0+0+0 | Zorunlu | 1 |
| COME 107 | Algorithms and Programming I | 3+0+2 | Zorunlu | 5 |
| CRP 101 | Career Planning | 1+0+0 | Zorunlu | 2 |
| DOU 101 | Understanding University and Critical Thinking | 1+0+0 | Zorunlu | 1 |
| ENG 201 | Critical Reading and Writing in English | 4+0+0 | Zorunlu | 4 |
| MATH 111 | Calculus I | 2+2+0 | Zorunlu | 6 |
| MATH 213 | Linear Algebra | 3+0+0 | Zorunlu | 5 |
| PHYS 101 | Physics I | 2+0+2 | Zorunlu | 6 |
| | | | **Toplam AKTS** | **30** |

### 2.Yarıyıl Ders Planı

| Ders Kodu | Ders Adı | T+U+L | Zorunlu/Seçmeli | AKTS |
|---|---|---|---|---|
| COME 002 | Internship II | 0+0+0 | Zorunlu | 2 |
| COME 108 | Algorithms and Programming II | 2+0+2 | Zorunlu | 6 |
| EEE 102 | Logic Circuits | 2+0+2 | Zorunlu | 6 |
| ENG 400 | Business English | 2+0+0 | Zorunlu | 4 |
| MATH 112 | Calculus II | 2+2+0 | Zorunlu | 6 |
| PHYS 102 | Physics II | 2+0+2 | Zorunlu | 6 |
| | | | **Toplam AKTS** | **30** |

### 3.Yarıyıl Ders Planı

| Ders Kodu | Ders Adı | T+U+L | Zorunlu/Seçmeli | AKTS |
|---|---|---|---|---|
| COME 207 | Advanced Object Oriented Programming | 2+0+2 | Zorunlu | 5 |
| COME 211 | Discrete Computational Structures | 3+0+0 | Zorunlu | 5 |
| EEE 201 | Electrical Circuits | 3+0+2 | Zorunlu | 5 |
| EEE 231 | Digital Design | 2+0+2 | Zorunlu | 5 |
| MATH 214 | Differential Equations | 2+2+0 | Zorunlu | 6 |
| TÜRK 103 | Critical Reading and Writing in Turkish | 4+0+0 | Zorunlu | 4 |
| | | | **Toplam AKTS** | **30** |

### 4.Yarıyıl Ders Planı

| Ders Kodu | Ders Adı | T+U+L | Zorunlu/Seçmeli | AKTS |
|---|---|---|---|---|
| COME 003 | Internship III | 0+0+0 | Zorunlu | 3 |
| COME 214 | Programming Language Concepts | 2+0+2 | Zorunlu | 5 |
| COME 218 | Data Structures and Algorithms | 2+0+2 | Zorunlu | 6 |
| COME 226 | Computer Organization and Architecture | 2+0+2 | Zorunlu | 5 |
| EEE 222 | Electronic Circuits I | 3+0+2 | Zorunlu | 5 |
| STAT 208 | Basic Engineering Probability and Statistics | 2+2+0 | Zorunlu | 6 |
| | | | **Toplam AKTS** | **30** |

### 5.Yarıyıl Ders Planı

| Ders Kodu | Ders Adı | T+U+L | Zorunlu/Seçmeli | AKTS |
|---|---|---|---|---|
| COME 004 | Internship IV | 0+0+0 | Zorunlu | 3 |
| COME 327 | Microprocessors and Microcontrollers | 2+0+2 | Zorunlu | 5 |
| COME 361 | Operating Systems | 2+2+0 | Zorunlu | 6 |
| COME 381 | Database Systems | 2+0+2 | Zorunlu | 5 |
| EF 403 | Ethics and Occupational Safety in Engineering | 0+2+0 | Zorunlu | 1 |
| SEC I (Dep Elec.) | Departmental Elective | - | Seçmeli | 5 |
| SEC II (Fac. Elec.) | Faculty Elective | - | Seçmeli | 5 |
| | | | **Toplam AKTS** | **30** |
| | **Gruplu Dersler** | | | |
| CE 439 | Water Supply and Environmental Health | 3+0+0 | Seçmeli | 6 |
| COME 305 | Multimedia Systems | 2+0+2 | Seçmeli | 5 |
| COME 311 | Linux System Administration and Programming | 2+0+2 | Seçmeli | 5 |
| COME 313 | Distributed Databases | 2+0+2 | Seçmeli | 5 |
| COME 317 | Engineering Applications with MATLAB | 2+0+2 | Seçmeli | 5 |
| COME 319 | Decision Making Analysis | 3+0+0 | Seçmeli | 5 |
| COME 335 | Mobile Application Development | 2+0+2 | Seçmeli | 5 |
| COME 339 | Advanced Java Applications | 2+0+2 | Seçmeli | 5 |

| COME 347 | Software Requirements Management | 3+0+0 | Seçmeli | 5 |
|----------|----------------------------------|-------|---------|---|
| COME 355 | Analysis of Algorithms | 2+0+2 | Seçmeli | 5 |
| COME 373 | Web Programming | 2+0+2 | Seçmeli | 5 |
| COME 428 | Robot Technology | 3+0+0 | Seçmeli | 5 |
| COME 439 | Computer Graphics | 2+0+2 | Seçmeli | 5 |
| COME 441 | Object Oriented System Development | 2+0+2 | Seçmeli | 5 |
| COME 447 | Knowledge Based Systems | 2+0+2 | Seçmeli | 5 |
| COME 493 | Fuzzy-System and Neural-Network Computing | 3+0+0 | Seçmeli | 5 |
| CONT 315 | Motion Control Systems | 3+0+0 | Seçmeli | 6 |
| CONT 317 | Modelling and Simulation in Control Engineering | 3+0+0 | Seçmeli | 5 |
| CONT 323 | Fundamentals of Adaptive Control Theory | 3+0+0 | Seçmeli | 6 |
| CONT 411 | Introduction to Robotics | 3+0+0 | Seçmeli | 5 |
| EEE 313 | Signals and Systems | 2+2+0 | Seçmeli | 5 |
| IE 301 | Operations Research I | 2+2+0 | Seçmeli | 6 |
| IE 303 | Game Theory for Engineers | 3+0+0 | Seçmeli | 6 |
| IE 333 | Production Planning and Control I | 3+0+0 | Seçmeli | 5 |
| IE 351 | Productivity Analysis | 3+0+0 | Seçmeli | 6 |
| IE 401 | Mathematical Modeling | 3+0+0 | Seçmeli | 6 |
| IE 403 | Network Theory | 3+0+0 | Seçmeli | 6 |
| IE 406 | Systems Simulation | 2+2+0 | Seçmeli | 6 |
| IE 433 | Enterprise Resource Planning | 3+0+0 | Seçmeli | 6 |
| IE 438 | Product and Process Development | 3+0+0 | Seçmeli | 6 |
| ME 103 | Computer Aided Engineering Graphics | 2+0+2 | Seçmeli | 5 |
| ME 241 | Statics | 2+2+0 | Seçmeli | 5 |
| ME 301 | Experimental Engineering I | 1+0+4 | Seçmeli | 5 |
| ME 345 | Strength of Materials | 3+1+0 | Seçmeli | 5 |
| ME 351 | Fluid Mechanics I | 3+1+0 | Seçmeli | 5 |
| ME 435 | Mechatronics | 3+0+0 | Seçmeli | 6 |
| ME 455 | Energy Efficiency | 3+0+0 | Seçmeli | 5 |
| MTH 402 | Introduction to Data Management and Artificial Intellegience | 2+0+0 | Seçmeli | 5 |

| 6.Yarıyıl Ders Planı | | | | |
|----------|----------------------------------|-------|---------|---|
| **Ders Kodu** | **Ders Adı** | **T+U+L** | **Zorunlu/Seçmeli** | **AKTS** |
| COME 342 | Introduction to Software Engineering | 2+0+2 | Zorunlu | 6 |
| EEE 232 | Discrete Time Signals and Systems | 3+0+0 | Zorunlu | 5 |
| TAR 203 | Principles of Atatürk and Formation of Modern Turkey | 4+0+0 | Zorunlu | 4 |
| SEC III (Dep. Elec.) | Departmental Elective (2 Pieces) | - | Seçmeli | 10 |
| SEC IV (Fac. Elec.) | Faculty Elective | - | Seçmeli | 5 |
| | | | **Toplam AKTS** | **30** |
| | Gruplu Dersler | | | |
| COME 302 | Information and Data Analysis | 2+0+2 | Seçmeli | 5 |
| COME 304 | Numerical Methods | 3+0+0 | Seçmeli | 5 |
| COME 316 | GUI Development with .NET Technologies | 2+0+2 | Seçmeli | 5 |
| COME 320 | Computer Graphics with Open GL | 2+0+2 | Seçmeli | 5 |
| COME 334 | Rapid Application Devel. with Microsoft .NET Framework | 2+0+2 | Seçmeli | 5 |
| COME 336 | Interface Design for Software Engineers | 2+0+2 | Seçmeli | 5 |
| COME 345 | Information Systems Analysis and Design | 2+2+0 | Seçmeli | 5 |
| COME 346 | Business Information Systems | 2+2+0 | Seçmeli | 5 |
| COME 412 | Data Communications Systems | 3+0+0 | Seçmeli | 5 |
| COME 414 | Electronic Business and Commerce Systems | 3+0+0 | Seçmeli | 5 |
| COME 436 | Digital Image Processing | 2+0+2 | Seçmeli | 5 |
| COME 444 | Artificial Intelligence | 3+0+0 | Seçmeli | 5 |
| COME 448 | Data Mining and Knowledge Discovery | 2+0+2 | Seçmeli | 5 |
| COME 450 | Distributed Systems | 3+0+0 | Seçmeli | 5 |
| COME 472 | Internet and Web Technologies | 2+0+2 | Seçmeli | 5 |
| CONT 212 | Electrical Measurements and Sensors | 2+0+2 | Seçmeli | 5 |
| CONT 322 | Process Control | 3+0+0 | Seçmeli | 6 |
| CONT 422 | Building Automation | 3+0+0 | Seçmeli | 6 |
| EEE 418 | Microprocessors and IoT | 1+2+0 | Seçmeli | 5 |
| IE 252 | Work Study and Ergonomics | 2+2+0 | Seçmeli | 6 |
| IE 302 | Operations Research II | 2+2+0 | Seçmeli | 6 |
| IE 304 | Applications in Data Analysis | 3+0+0 | Seçmeli | 6 |
| IE 335 | Total Quality Management | 3+0+0 | Seçmeli | 5 |
| IE 402 | Introduction to Multicriteria Decision Making | 3+0+0 | Seçmeli | 6 |
| IE 405 | Stochastic Models | 3+0+0 | Seçmeli | 6 |
| IE 425 | Computer Integrated Manufacturing | 2+0+2 | Seçmeli | 6 |
| IE 434 | Entrepreneurship and Innovation | 2+2+0 | Seçmeli | 6 |
| IE 436 | Supply Chain Management | 3+0+0 | Seçmeli | 6 |
| IE 452 | Industrial Psychology | 3+0+0 | Seçmeli | 6 |

| Ders Kodu | Ders Adı | T+U+L | Zorunlu/Seçmeli | AKTS |
|-----------|----------|-------|-----------------|------|
| IE 454 | Strategic and Technological Planning | 3+0+0 | Seçmeli | 6 |
| IE 476 | Environmental Studies | 3+0+0 | Seçmeli | 6 |
| ME 212 | Materials Science | 3+0+1 | Seçmeli | 5 |
| ME 264 | Thermodynamics I | 3+1+0 | Seçmeli | 5 |
| ME 302 | Experimental Engineering II | 1+0+4 | Seçmeli | 5 |
| ME 322 | Machine Elements I | 3+1+0 | Seçmeli | 5 |
| ME 332 | Manufacturing Technology | 3+0+0 | Seçmeli | 5 |

## 7.Yarıyıl Ders Planı

| Ders Kodu | Ders Adı | T+U+L | Zorunlu/Seçmeli | AKTS |
|-----------|----------|-------|-----------------|------|
| COME 411 | Computer Networks | 3+0+0 | Zorunlu | 5 |
| COME 435 | Control Systems Engineering | 2+0+2 | Zorunlu | 4 |
| COME 491 | Research Project | 1+2+0 | Zorunlu | 5 |
| SEC V (Uni. Elec.) | University Elective | - | Seçmeli | 5 |
| SEC VI (Sci. Elec.) | Science Elective | - | Seçmeli | 6 |
| SEC VII (Dep. Elec. | Departmental Elective | - | Seçmeli | 5 |
| | | | **Toplam AKTS** | **30** |

### Gruplu Dersler

| Ders Kodu | Ders Adı | T+U+L | Zorunlu/Seçmeli | AKTS |
|-----------|----------|-------|-----------------|------|
| BA 211 | General Accounting | 3+0+0 | Seçmeli | 5 |
| BA 241 | Management and Organization | 3+0+0 | Seçmeli | 5 |
| BA 353 | Consumer Behavior | 3+0+0 | Seçmeli | 5 |
| BA 455 | Human Resource Management | 3+0+0 | Seçmeli | 6 |
| BA 463 | Innovation Management | 2+1+0 | Seçmeli | 5 |
| CHEM 101 | Chemistry | 2+0+2 | Seçmeli | 5 |
| CHEM 300 | Nanoscience and Nanotechnology | 2+0+2 | Seçmeli | 6 |
| CHN 101 | Chinese I | 2+2+0 | Seçmeli | 5 |
| COME 305 | Multimedia Systems | 2+0+2 | Seçmeli | 5 |
| COME 311 | Linux System Administration and Programming | 2+0+2 | Seçmeli | 5 |
| COME 313 | Distributed Databases | 2+0+2 | Seçmeli | 5 |
| COME 317 | Engineering Applications with MATLAB | 2+0+2 | Seçmeli | 5 |
| COME 319 | Decision Making Analysis | 3+0+0 | Seçmeli | 5 |
| COME 335 | Mobile Application Development | 2+0+2 | Seçmeli | 5 |
| COME 339 | Advanced Java Applications | 2+0+2 | Seçmeli | 5 |
| COME 347 | Software Requirements Management | 3+0+0 | Seçmeli | 5 |
| COME 355 | Analysis of Algorithms | 2+0+2 | Seçmeli | 5 |
| COME 373 | Web Programming | 2+0+2 | Seçmeli | 5 |
| COME 403 | Data Warehousing and Mining | 2+0+2 | Seçmeli | 5 |
| COME 404 | Automata Theory and Formal Languages | 3+0+0 | Seçmeli | 6 |
| COME 439 | Computer Graphics | 2+0+2 | Seçmeli | 5 |
| COME 441 | Object Oriented System Development | 2+0+2 | Seçmeli | 5 |
| COME 447 | Knowledge Based Systems | 2+0+2 | Seçmeli | 5 |
| COME 493 | Fuzzy-System and Neural-Network Computing | 3+0+0 | Seçmeli | 5 |
| ECON 101 | Introduction to Economics | 3+0+0 | Seçmeli | 5 |
| ECON 211 | Microeconomics | 3+0+0 | Seçmeli | 5 |
| ECON 321 | International Economics | 3+0+0 | Seçmeli | 5 |
| FRN 101 | French I | 2+2+0 | Seçmeli | 5 |
| GER 101 | German I | 2+2+0 | Seçmeli | 5 |
| GRD 361 | User Interface Design I | 3+0+0 | Seçmeli | 5 |
| IE 365 | Decision Making Techniques | 2+1+0 | Seçmeli | 5 |
| INTR 213 | International Logistics | 3+0+0 | Seçmeli | 5 |
| IR 261 | International Relations Theory | 3+0+0 | Seçmeli | 6 |
| ITA 101 | Italian I | 2+2+0 | Seçmeli | 5 |
| JAP 101 | Japanese I | 2+2+0 | Seçmeli | 5 |
| MATH 431 | Introduction to Topology | 0+0+0 | Seçmeli | 6 |
| PHIL 313 | Professional Ethics | 3+0+0 | Seçmeli | 5 |
| PHYS 223 | Light and Optics | 2+1+1 | Seçmeli | 6 |
| PHYS 224 | Modern Physics I | 3+0+0 | Seçmeli | 6 |
| PHYS 301 | Classical Mechanics I | 3+0+0 | Seçmeli | 6 |
| PHYS 325 | Modern Physics II | 4+0+0 | Seçmeli | 6 |
| PHYS 371 | Solid State Physics for Engineers | 3+0+0 | Seçmeli | 6 |
| POLS 101 | Introduction to Social Sciences | 2+0+0 | Seçmeli | 6 |
| RUS 101 | Russian I | 2+2+0 | Seçmeli | 5 |
| SBYO 105 | Special Education and Inclusion | 3+0+0 | Seçmeli | 4 |
| SMR 400 | Seminar | 2+0+0 | Seçmeli | 2 |

## 8.Yarıyıl Ders Planı

| Ders Kodu | Ders Adı | T+U+L | Zorunlu/Seçmeli | AKTS |
|-----------|----------|-------|-----------------|------|
| COME 005 | Internship V | 0+0+0 | Zorunlu | 1 |
| COME 492 | Graduation Project | 0+6+0 | Zorunlu | 7 |

| | | | | |
|---|---|---|---|---|
| SEC IX (Sci. Elec.) | Science Elective (2 Pieces) | - | Seçmeli | 12 |
| SEC VIII(Dep. Elec. | Departmental Elective | - | Seçmeli | 5 |
| SEC X (Uni. Elec.) | University Elective | - | Seçmeli | 5 |
| | | | **Toplam AKTS** | **30** |
| | Gruplu Dersler | | | |
| BA 202 | Research Methods for Social Sciences | 2+1+0 | Seçmeli | 6 |
| BA 242 | Organizational Behavior | 2+1+0 | Seçmeli | 6 |
| BA 252 | Principles of Marketing | 3+0+0 | Seçmeli | 5 |
| BA 342 | Strategic Management and Business Policy | 3+0+0 | Seçmeli | 6 |
| BA 362 | Sales Management | 3+0+0 | Seçmeli | 5 |
| BIO 102 | Introduction to Biology | 3+0+0 | Seçmeli | 6 |
| CHN 102 | Chinese II | 2+2+0 | Seçmeli | 5 |
| CHN 104 | Chinese IV | 2+2+0 | Seçmeli | 5 |
| COME 302 | Information and Data Analysis | 2+0+2 | Seçmeli | 5 |
| COME 304 | Numerical Methods | 3+0+0 | Seçmeli | 5 |
| COME 316 | GUI Development with .NET Technologies | 2+0+2 | Seçmeli | 5 |
| COME 320 | Computer Graphics with Open GL | 2+0+2 | Seçmeli | 5 |
| COME 334 | Rapid Application Devel. with Microsoft .NET Framework | 2+0+2 | Seçmeli | 5 |
| COME 336 | Interface Design for Software Engineers | 2+0+2 | Seçmeli | 5 |
| COME 345 | Information Systems Analysis and Design | 2+2+0 | Seçmeli | 5 |
| COME 346 | Business Information Systems | 2+2+0 | Seçmeli | 5 |
| COME 404 | Automata Theory and Formal Languages | 3+0+0 | Seçmeli | 6 |
| COME 412 | Data Communications Systems | 3+0+0 | Seçmeli | 5 |
| COME 414 | Electronic Business and Commerce Systems | 3+0+0 | Seçmeli | 5 |
| COME 436 | Digital Image Processing | 2+0+2 | Seçmeli | 5 |
| COME 444 | Artificial Intelligence | 3+0+0 | Seçmeli | 5 |
| COME 448 | Data Mining and Knowledge Discovery | 2+0+2 | Seçmeli | 5 |
| COME 450 | Distributed Systems | 3+0+0 | Seçmeli | 5 |
| COME 472 | Internet and Web Technologies | 2+0+2 | Seçmeli | 5 |
| ECON 212 | Macroeconomics | 3+0+0 | Seçmeli | 5 |
| FRN 102 | French II | 2+2+0 | Seçmeli | 5 |
| GER 102 | German II | 2+2+0 | Seçmeli | 5 |
| GRD 362 | User Interface Design II | 3+0+0 | Seçmeli | 5 |
| IE 304 | Applications in Data Analysis | 3+0+0 | Seçmeli | 6 |
| INTR 312 | E-Commerce and E-Business | 3+0+0 | Seçmeli | 5 |
| INTR 354 | International Marketing | 3+0+0 | Seçmeli | 5 |
| INTR 402 | Global Business | 3+0+0 | Seçmeli | 5 |
| IR 212 | Diplomatic History | 3+0+0 | Seçmeli | 5 |
| ITA 102 | Italian II | 2+2+0 | Seçmeli | 5 |
| JAP 102 | Japanese II | 2+2+0 | Seçmeli | 5 |
| MATH 174 | Geometry For Engineers | 3+0+0 | Seçmeli | 6 |
| MATH 250 | Complex Calculus | 3+0+0 | Seçmeli | 6 |
| MATH 258 | Partial Differential Equations | 3+0+0 | Seçmeli | 6 |
| MATH 354 | Operational Calculus | 3+0+0 | Seçmeli | 6 |
| PHYS 112 | Waves, Fluids, Thermodynamics | 3+0+0 | Seçmeli | 6 |
| PHYS 122 | Electricity and Magnetism | 2+0+2 | Seçmeli | 6 |
| PHYS 224 | Modern Physics I | 3+0+0 | Seçmeli | 6 |
| PHYS 302 | Classical Mechanics II | 3+0+0 | Seçmeli | 6 |
| PHYS 324 | Electromagnetic Theory | 3+0+0 | Seçmeli | 6 |
| PHYS 334 | Quantum Mechanics | 3+0+0 | Seçmeli | 6 |
| PHYS 417 | Cosmology | 3+0+0 | Seçmeli | 6 |
| PHYS 432 | Computational Physics | 3+0+0 | Seçmeli | 6 |
| PHYS 473 | Introduction to Optoelectronics and Photonics | 3+0+0 | Seçmeli | 6 |
| POLS 102 | Introduction to Political Science | 2+0+0 | Seçmeli | 6 |
| SMR 400 | Seminar | 2+0+0 | Seçmeli | 2 |
| SOC 100 | General Sociology | 3+0+0 | Seçmeli | 5 |
| SOC 242 | Making of the Modern World | 2+0+0 | Seçmeli | 6 |
| VTS 301 | Volunteering Studies | 1+2+0 | Seçmeli | 4 |
| | | | | |
| | SEÇMELİ DERSLER HAVUZU | | | |
| BA 202 | Research Methods for Social Sciences | 2+1+0 | Seçmeli | 6 |
| BA 211 | General Accounting | 3+0+0 | Seçmeli | 5 |
| BA 241 | Management and Organization | 3+0+0 | Seçmeli | 5 |
| BA 242 | Organizational Behavior | 2+1+0 | Seçmeli | 6 |
| BA 252 | Principles of Marketing | 3+0+0 | Seçmeli | 5 |
| BA 342 | Strategic Management and Business Policy | 3+0+0 | Seçmeli | 6 |
| BA 353 | Consumer Behavior | 3+0+0 | Seçmeli | 5 |
| BA 362 | Sales Management | 3+0+0 | Seçmeli | 5 |

| Code | Course Name | Hours | Type | ECTS |
|------|-------------|-------|------|------|
| BA 455 | Human Resource Management | 3+0+0 | Seçmeli | 6 |
| BA 463 | Innovation Management | 2+1+0 | Seçmeli | 5 |
| BIO 102 | Introduction to Biology | 3+0+0 | Seçmeli | 6 |
| CE 439 | Water Supply and Environmental Health | 3+0+0 | Seçmeli | 6 |
| CHEM 101 | Chemistry | 2+0+2 | Seçmeli | 5 |
| CHEM 300 | Nanoscience and Nanotechnology | 2+0+2 | Seçmeli | 6 |
| CHN 101 | Chinese I | 2+2+0 | Seçmeli | 5 |
| CHN 102 | Chinese II | 2+2+0 | Seçmeli | 5 |
| CHN 104 | Chinese IV | 2+2+0 | Seçmeli | 5 |
| COME 302 | Information and Data Analysis | 2+0+2 | Seçmeli | 5 |
| COME 304 | Numerical Methods | 3+0+0 | Seçmeli | 5 |
| COME 305 | Multimedia Systems | 2+0+2 | Seçmeli | 5 |
| COME 311 | Linux System Administration and Programming | 2+0+2 | Seçmeli | 5 |
| COME 313 | Distributed Databases | 2+0+2 | Seçmeli | 5 |
| COME 316 | GUI Development with .NET Technologies | 2+0+2 | Seçmeli | 5 |
| COME 317 | Engineering Applications with MATLAB | 2+0+2 | Seçmeli | 5 |
| COME 319 | Decision Making Analysis | 3+0+0 | Seçmeli | 5 |
| COME 320 | Computer Graphics with Open GL | 2+0+2 | Seçmeli | 5 |
| COME 334 | Rapid Application Devel. with Microsoft .NET Framework | 2+0+2 | Seçmeli | 5 |
| COME 335 | Mobile Application Development | 2+0+2 | Seçmeli | 5 |
| COME 336 | Interface Design for Software Engineers | 2+0+2 | Seçmeli | 5 |
| COME 339 | Advanced Java Applications | 2+0+2 | Seçmeli | 5 |
| COME 345 | Information Systems Analysis and Design | 2+2+0 | Seçmeli | 5 |
| COME 346 | Business Information Systems | 2+2+0 | Seçmeli | 5 |
| COME 347 | Software Requirements Management | 3+0+0 | Seçmeli | 5 |
| COME 355 | Analysis of Algorithms | 2+0+2 | Seçmeli | 5 |
| COME 373 | Web Programming | 2+0+2 | Seçmeli | 5 |
| COME 403 | Data Warehousing and Mining | 2+0+2 | Seçmeli | 5 |
| COME 404 | Automata Theory and Formal Languages | 3+0+0 | Seçmeli | 6 |
| COME 412 | Data Communications Systems | 3+0+0 | Seçmeli | 5 |
| COME 414 | Electronic Business and Commerce Systems | 3+0+0 | Seçmeli | 5 |
| COME 428 | Robot Technology | 3+0+0 | Seçmeli | 5 |
| COME 436 | Digital Image Processing | 2+0+2 | Seçmeli | 5 |
| COME 439 | Computer Graphics | 2+0+2 | Seçmeli | 5 |
| COME 441 | Object Oriented System Development | 2+0+2 | Seçmeli | 5 |
| COME 444 | Artificial Intelligence | 3+0+0 | Seçmeli | 5 |
| COME 447 | Knowledge Based Systems | 2+0+2 | Seçmeli | 5 |
| COME 448 | Data Mining and Knowledge Discovery | 2+0+2 | Seçmeli | 5 |
| COME 450 | Distributed Systems | 3+0+0 | Seçmeli | 5 |
| COME 472 | Internet and Web Technologies | 2+0+2 | Seçmeli | 5 |
| COME 493 | Fuzzy-System and Neural-Network Computing | 3+0+0 | Seçmeli | 5 |
| CONT 212 | Electrical Measurements and Sensors | 2+0+2 | Seçmeli | 5 |
| CONT 315 | Motion Control Systems | 3+0+0 | Seçmeli | 6 |
| CONT 317 | Modelling and Simulation in Control Engineering | 3+0+0 | Seçmeli | 5 |
| CONT 322 | Process Control | 3+0+0 | Seçmeli | 6 |
| CONT 323 | Fundamentals of Adaptive Control Theory | 3+0+0 | Seçmeli | 6 |
| CONT 411 | Introduction to Robotics | 3+0+0 | Seçmeli | 5 |
| CONT 422 | Building Automation | 3+0+0 | Seçmeli | 6 |
| ECON 101 | Introduction to Economics | 3+0+0 | Seçmeli | 5 |
| ECON 211 | Microeconomics | 3+0+0 | Seçmeli | 5 |
| ECON 212 | Macroeconomics | 3+0+0 | Seçmeli | 5 |
| ECON 321 | International Economics | 3+0+0 | Seçmeli | 5 |
| EEE 313 | Signals and Systems | 2+2+0 | Seçmeli | 5 |
| EEE 418 | Microprocessors and IoT | 1+2+0 | Seçmeli | 5 |
| FRN 101 | French I | 2+2+0 | Seçmeli | 5 |
| FRN 102 | French II | 2+2+0 | Seçmeli | 5 |
| GER 101 | German I | 2+2+0 | Seçmeli | 5 |
| GER 102 | German II | 2+2+0 | Seçmeli | 5 |
| GRD 361 | User Interface Design I | 3+0+0 | Seçmeli | 5 |
| GRD 362 | User Interface Design II | 3+0+0 | Seçmeli | 5 |
| IE 252 | Work Study and Ergonomics | 2+2+0 | Seçmeli | 6 |
| IE 301 | Operations Research I | 2+2+0 | Seçmeli | 6 |
| IE 302 | Operations Research II | 2+2+0 | Seçmeli | 6 |
| IE 303 | Game Theory for Engineers | 3+0+0 | Seçmeli | 6 |
| IE 304 | Applications in Data Analysis | 3+0+0 | Seçmeli | 6 |
| IE 333 | Production Planning and Control I | 3+0+0 | Seçmeli | 5 |
| IE 335 | Total Quality Management | 3+0+0 | Seçmeli | 5 |
| IE 351 | Productivity Analysis | 3+0+0 | Seçmeli | 6 |
| IE 365 | Decision Making Techniques | 2+1+0 | Seçmeli | 5 |

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| IE 401 | Mathematical Modeling | 3+0+0 | Seçmeli | 6 |
| IE 402 | Introduction to Multicriteria Decision Making | 3+0+0 | Seçmeli | 6 |
| IE 403 | Network Theory | 3+0+0 | Seçmeli | 6 |
| IE 405 | Stochastic Models | 3+0+0 | Seçmeli | 6 |
| IE 406 | Systems Simulation | 2+2+0 | Seçmeli | 6 |
| IE 425 | Computer Integrated Manufacturing | 2+0+2 | Seçmeli | 6 |
| IE 433 | Enterprise Resource Planning | 3+0+0 | Seçmeli | 6 |
| IE 434 | Entrepreneurship and Innovation | 2+2+0 | Seçmeli | 6 |
| IE 436 | Supply Chain Management | 3+0+0 | Seçmeli | 6 |
| IE 438 | Product and Process Development | 3+0+0 | Seçmeli | 6 |
| IE 452 | Industrial Psychology | 3+0+0 | Seçmeli | 6 |
| IE 454 | Strategic and Technological Planning | 3+0+0 | Seçmeli | 6 |
| IE 476 | Environmental Studies | 3+0+0 | Seçmeli | 6 |
| INTR 213 | International Logistics | 3+0+0 | Seçmeli | 5 |
| INTR 312 | E-Commerce and E-Business | 3+0+0 | Seçmeli | 5 |
| INTR 354 | International Marketing | 3+0+0 | Seçmeli | 5 |
| INTR 402 | Global Business | 3+0+0 | Seçmeli | 5 |
| IR 212 | Diplomatic History | 3+0+0 | Seçmeli | 5 |
| IR 261 | International Relations Theory | 3+0+0 | Seçmeli | 6 |
| ITA 101 | Italian I | 2+2+0 | Seçmeli | 5 |
| ITA 102 | Italian II | 2+2+0 | Seçmeli | 5 |
| JAP 101 | Japanese I | 2+2+0 | Seçmeli | 5 |
| JAP 102 | Japanese II | 2+2+0 | Seçmeli | 5 |
| MATH 174 | Geometry For Engineers | 3+0+0 | Seçmeli | 6 |
| MATH 250 | Complex Calculus | 3+0+0 | Seçmeli | 6 |
| MATH 258 | Partial Differential Equations | 3+0+0 | Seçmeli | 6 |
| MATH 354 | Operational Calculus | 3+0+0 | Seçmeli | 6 |
| MATH 431 | Introduction to Topology | 0+0+0 | Seçmeli | 6 |
| ME 103 | Computer Aided Engineering Graphics | 2+0+2 | Seçmeli | 5 |
| ME 212 | Materials Science | 3+0+1 | Seçmeli | 5 |
| ME 241 | Statics | 2+2+0 | Seçmeli | 5 |
| ME 264 | Thermodynamics I | 3+1+0 | Seçmeli | 5 |
| ME 301 | Experimental Engineering I | 1+0+4 | Seçmeli | 5 |
| ME 302 | Experimental Engineering II | 1+0+4 | Seçmeli | 5 |
| ME 322 | Machine Elements I | 3+1+0 | Seçmeli | 5 |
| ME 332 | Manufacturing Technology | 3+0+0 | Seçmeli | 5 |
| ME 345 | Strength of Materials | 3+1+0 | Seçmeli | 5 |
| ME 351 | Fluid Mechanics I | 3+1+0 | Seçmeli | 5 |
| ME 435 | Mechatronics | 3+0+0 | Seçmeli | 6 |
| ME 455 | Energy Efficiency | 3+0+0 | Seçmeli | 5 |
| MTH 402 | Introduction to Data Management and Artificial Intellegience | 2+0+0 | Seçmeli | 5 |
| PHIL 313 | Professional Ethics | 3+0+0 | Seçmeli | 5 |
| PHYS 112 | Waves, Fluids, Thermodynamics | 3+0+0 | Seçmeli | 6 |
| PHYS 122 | Electricity and Magnetism | 2+0+2 | Seçmeli | 6 |
| PHYS 223 | Light and Optics | 2+1+1 | Seçmeli | 6 |
| PHYS 224 | Modern Physics I | 3+0+0 | Seçmeli | 6 |
| PHYS 301 | Classical Mechanics I | 3+0+0 | Seçmeli | 6 |
| PHYS 302 | Classical Mechanics II | 3+0+0 | Seçmeli | 6 |
| PHYS 324 | Electromagnetic Theory | 3+0+0 | Seçmeli | 6 |
| PHYS 325 | Modern Physics II | 4+0+0 | Seçmeli | 6 |
| PHYS 334 | Quantum Mechanics | 3+0+0 | Seçmeli | 6 |
| PHYS 371 | Solid State Physics for Engineers | 3+0+0 | Seçmeli | 6 |
| PHYS 417 | Cosmology | 3+0+0 | Seçmeli | 6 |
| PHYS 432 | Computational Physics | 3+0+0 | Seçmeli | 6 |
| PHYS 473 | Introduction to Optoelectronics and Photonics | 3+0+0 | Seçmeli | 6 |
| POLS 101 | Introduction to Social Sciences | 2+0+0 | Seçmeli | 6 |
| POLS 102 | Introduction to Political Science | 2+0+0 | Seçmeli | 6 |
| RUS 101 | Russian I | 2+2+0 | Seçmeli | 5 |
| SBYO 105 | Special Education and Inclusion | 3+0+0 | Seçmeli | 4 |
| SMR 400 | Seminar | 2+0+0 | Seçmeli | 2 |
| SOC 100 | General Sociology | 3+0+0 | Seçmeli | 5 |
| SOC 242 | Making of the Modern World | 2+0+0 | Seçmeli | 6 |
| VTS 301 | Volunteering Studies | 1+2+0 | Seçmeli | 4 |