**FİZİK BÖLÜMÜ**

**%100 İNGİLİZCE**

(2016-2017 GÜZ DÖNEMİNDEN İTİBAREN DERSE BAŞLAYAN ÖĞRENCİLER İÇİN)

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| --- | --- | --- | --- | --- | --- | --- | --- |
| **1.Yıl / GÜZ Yarıyılı** | | | | **1.Yıl / BAHAR Yarıyılı** | | | |
| **Ders Kodu** | **Ders Adı** | **Kredi** | **AKTS** | **Ders Kodu** | **Ders Adı** | **Kredi** | **AKTS** |
| INF 100 | Introduction to Computer Systems | 3 | 3 | MATH 116 | Linear Algebra | 3 | 5 |
| PHYS 103 | Physics Laboratory I | 1 | 3 | PHYS 104 | Physics Laboratory II | 1 | 3 |
| PHYS 111 | Elementary Physics I | 5 | 8 | PHYS 112 | Elementary Physics II | 5 | 8 |
| CHEM 101 | General Chemistry I | 3 | 5 | CHEM 102 | General Chemistry II | 3 | 5 |
| CHEM 113 | General Chemistry Laboratory I | 1 | 1 | CHEM 114 | General Chemistry Laboratory II | 1 | 1 |
| MATH 101 | Calculus I | 5 | 7 | MATH 102 | Calculus II | 5 | 7 |
| SSTR 101 | Principles of Atatürk and the History of Turkish Revolution I | 2 | 2 | SSTR 102 | Principles of Atatürk and the History of Turkish Revolution II | 2 | 2 |
|  | | | **29** |  | | | **31** |
| **2.Yıl / GÜZ Yarıyılı** | | | | **2.Yıl / BAHAR Yarıyılı** | | |  |
| **Ders Kodu** | **Ders Adı** | **Kredi** | **AKTS** | **Ders Kodu** | **Ders Adı** | **Kredi** | **AKTS** |
| PHYS 204 | Classical Mechanics I | 4 | 6 | PHYS 202 | Modern Physics | 4 | 7 |
| PHYS 203 | Waves and Optics | 5 | 7 | PHYS 206 | Electromagnetic Theory I | 4 | 6 |
| ENG 111 | English for Business Life | 2 | 2 | INF 101 | Introduction to Programming | 3 | 4 |
| PHYS 215 | Mathematical Methods in Physics I | 5 | 8 | ENG 112 | Academic English | 2 | 2 |
| PHYS 208 | Physics Laboratory III | 1 | 3 | PHYS 216 | Mathematical Methods in Physics II | 3 | 5 |
| MATH 215 | Differential Equations | 3 | 5 | XXX | Technical Elective | 3 | 5 |
|  | | | **31** |  | | | **29** |
| **3.Yıl / GÜZ Yarıyılı** | | | | **3.Yıl / BAHAR Yarıyılı** | | |  |
| **Ders Kodu** | **Ders Adı** | **Kredi** | **AKTS** | **Ders Kodu** | **Ders Adı** | **Kredi** | **AKTS** |
| PHYS 303 | Quantum Mechanics I | 4 | 8 | PHYS 302 | Statistical Mechanics I | 4 | 5 |
| TUR 101 | Turkish I | 2 | 2 | TUR 102 | Turkish II | 2 | 2 |
| PHYS 311 | Electronics I | 5 | 8 | PHYS 322 | Quantum Mechanics II | 4 | 6 |
| PHYS 247 | Thermodynamics | 2 | 4 | PHYS 406 | Physics Laboratory IV | 1 | 3 |
| XXX | Non-Technical Elective | 2 | 3 | XXX | Non-Technical Elective | 2 | 3 |
| PHYSXXX | Department Elective I | 3 | 5 | PHYSXXX | Department Elective II | 3 | 5 |
|  |  |  |  | PHYSXXX | Department Elective III | 3 | 5 |
|  | | | **30** |  | | | **29** |
| **4.Yıl / GÜZ Yarıyılı** | | | | **4.Yıl / BAHAR Yarıyılı** | | |  |
| **Ders Kodu** | **Ders Adı** | **Kredi** | **AKTS** | **Ders Kodu** | **Ders Adı** | **Kredi** | **AKTS** |
| PHYS 401 | Solid State Physics I | 4 | 6 | PHYS 492 | Graduation Project | 4 | 10 |
| PHYS 436 | Atomic and Molecular Phyics | 4 | 6 | PHYSXXX | Free Elective | 3 | 5 |
| PHYS 416 | Computer Applications in Physics | 3 | 5 | PHYSXXX | Department Elective VII | 3 | 5 |
| PHYSXXX | Department Elective IV | 3 | 5 | PHYSXXX | Department Elective VIII | 3 | 5 |
| PHYSXXX | Department Elective V | 3 | 5 | PHYSXXX | Department Elective IX | 3 | 5 |
| PHYSXXX | Department Elective VI | 3 | 5 |  | | | **30** |
|  | | | **32** | VEYA | | | |
|  |  |  |  | PHYS 491 | Industrial Applications |  | 20 |
|  |  |  |  | PHYS 492 | Graduation Project | 4 | 10 |
|  |  |  |  |  | | | **30** |

* Fizik Bölümüne kayıtlı tüm lisans öğrencileri krediye bakılmaksızın Bölüm “Lisans Müfredatı”nda belirtilen tüm dersleri almak zorundadır.
* Mezuniyet için gerekli toplam en az 240 AKTS'dir..