

Faculty of Science and Literature
Department of Physics

2017/2018 Course List									
1. YARIYIL									
Katalog No	Ders Kodu	Ders Adı	Zor/Seç	Ders Dili	T	L	U	Ders Saat	AKTS
9905005	AIT101	Atatürk's Principles and History of Turkish Revolution	Compulsory Course	Turkish	2	0	0	2	2
9901005	TDB103	Turkish Language I	Compulsory Course	Turkish	2	0	0	2	2
9501001	FEF107	Chemistry	Compulsory Course	Turkish	3	0	0	3	5
9501032	FEF113	Linear Algebra and Its Applications	Compulsory Course	Turkish	3	0	0	3	5
9501005	FEF105	Mathematics I	Compulsory Course	Turkish	4	0	1	5	6
0101150	FIZ113	Mechanics	Compulsory Course	Turkish	4	0	1	5	6
0101154	FIZ109	Mechanics Laboratory	Compulsory Course	Turkish	0	3	0	3	4
Compulsory Course AKTS Toplamı									30
1. YARIYIL AKTS TOPLAMI									30
2. YARIYIL									
Katalog No	Ders Kodu	Ders Adı	Zor/Seç	Ders Dili	T	L	U	Ders Saat	AKTS
9905006	AIT104	Atatürk's Principles and History of Turkish Revolutions II	Compulsory Course	Turkish	2	0	0	2	2
9907003	ENF102	Practices in Basic Information Technologies	Compulsory Course	Turkish	2	0	1	3	3
9901006	TDB106	Turkish Language II	Compulsory Course	Turkish	2	0	0	2	2
9501006	FEF108	Mathematics II	Compulsory Course	Turkish	4	0	1	5	6
0101159	FIZ114	Electricity and Magnetism	Compulsory Course	Turkish	4	0	1	5	7
0101161	FIZ110	Electricity and Magnetism Laboratory	Compulsory Course	Turkish	0	3	0	3	4
0101160	FIZ112	Application of Analytical Geometry in Physics	Compulsory Course	English	3	0	0	3	6
Compulsory Course AKTS Toplamı									30
2. YARIYIL AKTS TOPLAMI									30
3. YARIYIL									

Katalog No	Ders Kodu	Ders Adı	Zor/Seç	Ders Dili	T	L	U	Ders Saat	AKTS	
9907004	ENF201	Basic Computer Sciences	Compulsory Course	Turkish	3	0	1	4	3	4
9501031	FEF203	Diferantial Equations and Its applications	Compulsory Course	English	3	0	1	4	3	5
0101163	FIZ215	Mathematical Methods in Physics I	Compulsory Course	Turkish	4	0	0	4	4	5
0101165	FIZ213	Professional English I	Compulsory Course	English	4	0	0	4	4	4
Compulsory Course AKTS Toplamı										18
0101167	FIZ209	Introduction to Optics	Elective Course Group I	English	3	0	0	3	3	4
0101166	FIZ211	Thermodynamics	Elective Course Group I	English	3	0	0	3	3	4
En Az 4 AKTS Ders Seçilebilir			Seçmeli Ders Grup I AKTS Toplamı						4	
0101169	FIZ205	Optics Laboratory	Elective Course Group II	Turkish	0	3	0	3	1	4
0101168	FIZ207	Thermodynamics Laboratory	Elective Course Group II	Turkish	0	3	0	3	1	4
En Az 4 AKTS Ders Seçilebilir			Seçmeli Ders Grup II AKTS Toplamı						4	
		University Elective I								4
3. YARIYIL AKTS TOPLAMI										30
4. YARIYIL										
Katalog No	Ders Kodu	Ders Adı	Zor/Seç	Ders Dili	T	L	U	Ders Saat	AKTS	
0101172	FIZ206	Mathematical Methods in Physics II	Compulsory Course	English	4	0	0	4	4	6
0101174	FIZ202	Professional English II	Compulsory Course	English	3	0	0	3	3	4
0101173	FIZ204	Modern Physics	Compulsory Course	English	5	0	0	5	5	6
0101170	FIZ210	Vibration and Waves I	Compulsory Course	Turkish	4	0	0	4	4	6
0101171	FIZ208	Vibration and Waves Laboratory	Compulsory Course	Turkish	0	3	0	3	1	4
Compulsory Course AKTS Toplamı										26
		University Elective II								4
4. YARIYIL AKTS TOPLAMI										30
5. YARIYIL										
Katalog No	Ders Kodu	Ders Adı	Zor/Seç	Ders Dili	T	L	U	Ders Saat	AKTS	
0101175	FIZ331	Classical Mechanics	Compulsory Course	English	5	0	0	5	5	8
0101176	FIZ329	Quantum Physics I	Compulsory Course	Turkish	5	0	0	5	5	8
0101263	FIZ301	Professional English III	Compulsory Course	English	3	0	0	3	3	6

Compulsory Course AKTS Toplamı										22
0101181	FIZ321	Introduction to Biophysics	Elective Course Group III	Turkish	3	0	0	3	3	5
0101189	FIZ309	The C++ Programming	Elective Course Group III	Turkish	0	0	3	3	1	4
0101185	FIZ315	Electrical Applications	Elective Course Group III	Turkish	3	0	0	3	3	4
0101191	FIZ305	Electrical Applications Laboratory	Elective Course Group III	Turkish	0	3	0	3	1	4
0101184	FIZ317	Financial Mathematics	Elective Course Group III	Turkish	3	0	0	3	3	4
0101190	FIZ307	Computer Applications in Physics	Elective Course Group III	Turkish	0	0	3	3	3	4
0101187	FIZ311	Fortran	Elective Course Group III	Turkish	0	0	3	3	3	4
0101180	FIZ323	Real Gasses and Liquid Thermodynamics	Elective Course Group III	Turkish	3	0	0	3	3	4
0101178	FIZ327	Basic Electronics	Elective Course Group III	Turkish	3	0	0	3	3	4
0101186	FIZ313	Basic Electronics Laboratory	Elective Course Group III	Turkish	0	3	0	3	1	4
0101179	FIZ325	Vibration and Waves II	Elective Course Group III	Turkish	3	0	0	3	3	4
0101192	FIZ303	Visual Basic	Elective Course Group III	Turkish	0	0	3	3	1	4
En Az 8 AKTS Ders Seçilebilir			Seçmeli Ders Grup III AKTS Toplamı						8	
5. YARIYIL AKTS TOPLAMI										30
6. YARIYIL										
Katalog No	Ders Kodu	Ders Adı	Zor/Seç	Ders Dili	TL	U	Ders Saat	AKTS		
0101194	FIZ324	Atomic and Molecular Physics	Compulsory Course	Turkish	5	0	0	5	5	6
0101193	FIZ326	Electromagnetic Theory	Compulsory Course	Turkish	5	0	0	5	5	6
0101195	FIZ322	Statistical Physics	Compulsory Course	Turkish	5	0	0	5	5	6
0101197	FIZ318	Modern Physics Laboratory	Compulsory Course	Turkish	0	3	0	3	1	4
Compulsory Course AKTS Toplamı										22
0101198	FIZ316	Fluid Mechanics	Elective Course Group IV	Turkish	3	0	0	3	3	4
0101204	FIZ304	Alternative Energy Sources	Elective Course Group IV	Turkish	3	0	0	3	3	4
0101205	FIZ302	Partial Differential Equations in Physics	Elective Course Group IV	Turkish	3	0	0	3	3	4
0101203	FIZ306	Classical Mechanics II	Elective Course Group IV	Turkish	3	0	0	3	3	4
0101200	FIZ312	Crystal Configurations and Structural Analysis	Elective Course Group IV	Turkish	3	0	0	3	3	4

0101199	FIZ314	Quantum Physics II	Elective Course Group IV	Turkish	3	0	0	3	3	4
0101201	FIZ310	Mathematical Modelling	Elective Course Group IV	Turkish	3	0	0	3	3	4
0101202	FIZ308	Nuclear Data Analysis	Elective Course Group IV	Turkish	3	0	0	3	3	4
En Az 8 AKTS Ders Seçilebilir			Seçmeli Ders Grup IV AKTS Toplamı						8	
6. YARIYIL AKTS TOPLAMI										30
7. YARIYIL										
Katalog No	Ders Kodu	Ders Adı	Zor/Seç	Ders Dili	T	L	U	Ders Saat	AKTS	
0101207	FIZ429	Solid State Physics I	Compulsory Course	Turkish	5	0	0	5	5	7
0101264	FIZ427	Professional English IV	Compulsory Course	English	3	0	0	3	3	4
0101310	FIZ431	Nuclear Physics	Compulsory Course	English	5	0	0	5	5	8
0101208	FIZ401	Seminar I	Compulsory Course	Turkish	0	0	2	2	2	3
Compulsory Course AKTS Toplamı									22	
0101222	FIZ403	Experimental Particle Physics	Elective Course Group V	Turkish	3	0	0	3	3	4
0101217	FIZ413	Electronics	Elective Course Group V	Turkish	3	0	0	3	3	4
0101212	FIZ423	Fiber Optics	Elective Course Group V	Turkish	3	0	0	3	3	4
0101245	FIZ419	Numerical methods in Physics I	Elective Course Group V	Turkish	3	0	0	3	3	4
0101219	FIZ409	Introduction to Group Theory	Elective Course Group V	Turkish	3	0	0	3	3	4
0101223	FIZ433	Introduction to Classical Field Theory	Elective Course Group V	Turkish	3	0	0	3	3	4
0101220	FIZ407	Introduction to Cosmology	Elective Course Group V	Turkish	3	0	0	3	3	4
0101216	FIZ415	Quantum Computers	Elective Course Group V	Turkish	3	0	0	3	3	4
0101221	FIZ405	Nuclear Astrophysics	Elective Course Group V	Turkish	3	0	0	3	3	4
0101213	FIZ421	Theory of Special Relativity	Elective Course Group V	Turkish	3	0	0	3	3	4
0101214	FIZ438	Introduction to Plasma Physics	Elective Course Group V	Turkish	3	0	0	3	3	4
0101182	FIZ435	Radiation and Health Physics	Elective Course Group V	Turkish	3	0	0	3	3	4
0101218	FIZ411	Ultrasound	Elective Course Group V	Turkish	3	0	0	3	3	4
0101215	FIZ417	Introduction to Semiconductor Physics	Elective Course Group V	Turkish	3	0	0	3	3	4

En Az 8 AKTS Ders Seçilebilir				Seçmeli Ders Grup V AKTS Toplamı				8		
7. YARIYIL AKTS TOPLAMI									30	
8. YARIYIL										
Katalog No	Ders Kodu	Ders Adı	Zor/Seç	Ders Dili	TL	U	Ders Saat	AKTS		
0101265	FIZ424	Professional English V	Compulsory Course	English	3	0	0	3	3	6
0101225	FIZ402	Seminar II	Compulsory Course	Turkish	0	0	2	2	2	4
Compulsory Course AKTS Toplamı									10	
0101226	FIZ430	Solid State Physics Laboratory	Elective Course Group VI	Turkish	0	3	0	3	1	4
0101211	FIZ436	Laboratory Applications	Elective Course Group VI	Turkish	0	3	0	3	1	4
0101227	FIZ428	Lazer Physics Laboratory	Elective Course Group VI	Turkish	0	3	0	3	1	4
0101228	FIZ426	Nuclear Physics Laboratory	Elective Course Group VI	Turkish	0	3	0	3	1	4
En Az 4 AKTS Ders Seçilebilir			Seçmeli Ders Grup VI AKTS Toplamı					4		
0101242	FIZ432	The History of Physics	Elective Course Group VII	Turkish	3	0	0	3	3	4
0101237	FIZ410	Problem solution techniques in physics	Elective Course Group VII	Turkish	3	0	0	3	3	4
0101244	FIZ440	Numerical methods in Physics II	Elective Course Group VII	Turkish	3	0	0	3	3	4
0101236	FIZ412	Statistical physics applications	Elective Course Group VII	Turkish	3	0	0	3	3	4
0101233	FIZ418	Solid State Physics II	Elective Course Group VII	Turkish	3	0	0	3	3	4
0101230	FIZ425	Laser Physics	Elective Course Group VII	Turkish	3	0	0	3	3	4
0101238	FIZ408	Nanophotonics	Elective Course Group VII	Turkish	3	0	0	3	3	4
0101232	FIZ420	Nuclear Reactor Physics	Elective Course Group VII	Turkish	3	0	0	3	3	4
0101235	FIZ414	Package Programs	Elective Course Group VII	Turkish	3	0	0	3	3	4
0101234	FIZ416	Digital Electronics	Elective Course Group VII	Turkish	3	0	0	3	3	4
0101231	FIZ422	Introduction to Spectroscopy	Elective Course Group VII	Turkish	3	0	0	3	3	4
0101239	FIZ406	Elemantary Particle Physics	Elective Course Group VII	Turkish	3	0	0	3	3	4
0101240	FIZ404	X-rays and its applications	Elective Course Group VII	Turkish	3	0	0	3	3	4
En Az 12 AKTS Ders Seçilebilir			Seçmeli Ders Grup VII AKTS Toplamı					12		
		University Elective III								4

8. YARIYIL AKTS TOPLAMI	30
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Üniversite Ortak Dersi

Üniversite Seçmeli Dersi

Fen - Edebiyat Fakültesi Ortak Dersi

Fizik Bölümü Dersi