

PHYSICS - Courses

Fall semester

1.Semester Course Plan				
Code	Course Name	T+A+L	Compulsory/ Elective	ECTS
FEF1001	Physics 1	3+1+0	Compulsory	6
FEF1003	Mathematics 1	4+0+0	Compulsory	6
FİZ1001	Physics Laboratory 1	0+2+0	Compulsory	3
KKÜ0790	Science History	2+0+0	Compulsory	3
KKÜ1007	Chemistry 1	3+0+0	Compulsory	5
3.Semester Course Plan				
FEF0100	Linear Algebra	4+0+0	Compulsory	6
FİZ2001	Physics 3	4+0+0	Compulsory	7
FİZ2003	Mathematical Methods in Physics 1	4+0+0	Compulsory	7
FİZ2005	Physics Laboratory 3	0+2+0	Compulsory	3
KKÜ0150	Computer Programming 1	2+2+0	Compulsory	5
FEF2001	Mental Health and Human Relationship	2+0+0	Elective	3
FİZ2007	Recent Advances in Physics	2+0+0	Elective	2
5.Semester Course Plan				
FİZ3001	Quantum Physics 1	4+0+0	Compulsory	7
FİZ3003	Classical Mechanics	4+0+0	Compulsory	7
FİZ3005	Atomic and Molecular Physics	4+0+0	Compulsory	7
FİZ3007	Electronics Circuit Lab	0+2+0	Compulsory	3
FİZ3009	Artificial Intelligence	2+0+0	Elective	4
KKÜ0510	Numerical Analysis 1	3+0+0	Elective	4
7.Semester Course Plan				
FİZ4001	Electromagnetic Theory 1	4+0+0	Compulsory	7
FİZ4003	Solid State Physics	4+0+0	Compulsory	7
FİZ4005	Nuclear Physics	4+0+0	Compulsory	7
KKÜ0210	Special Topics 1 (Project 1)	0+2+0	Compulsory	4
FİZ4007	Plasma Physics	4+0+0	Elective	7
			Total ECTS	120

Spring semester

2.Semester Course Plan				
Code	Course Name	T+A+L	Compulsory/ Elective	ECTS
FEF1002	Physics 2	3+1+0	Compulsory	6
FEF1004	Mathematics 2	4+0+0	Compulsory	6
FİZ1002	Physics Laboratory 2	0+2+0	Compulsory	3
KKÜ1022	Chemistry 2	3+0+0	Compulsory	5
4.Semester Course Plan				
FEF2120	Differential Equations	4+0+0	Compulsory	6
FİZ2002	Modern Physics	3+0+0	Compulsory	5
FİZ2004	Mathematical Methods in Physics 2	4+0+0	Compulsory	7
FİZ2010	Computer Applications in Physics 1	2+2+0	Compulsory	5
KKÜ2008	Electronic Circuits 1	3+0+0	Compulsory	5
FİZ2006	Cosmology	2+0+0	Elective	2
6.Semester Course Plan				
FİZ3002	Quantum Physics 2	4+0+0	Compulsory	7
FİZ3004	Statistical Physics and Thermodynamics	4+0+0	Compulsory	7
FİZ3006	Quantum Physics Laboratory	0+2+0	Compulsory	3
KKÜ0032	Lasers and Modern Optics	3+0+0	Compulsory	5
FİZ3012	Fundamental Particle Physics	2+0+0	Elective	4
FİZ3016	Robotics	2+0+0	Elective	4
KKÜ3100	Project Management	3+0+0	Elective	4
8.Semester Course Plan				
KKÜ0016	Special Topics 2 (Project 2)	0+2+0	Compulsory	4
FİZ4002	Crystal Physics	4+0+0	Elective	6
FİZ4004	Radiation Physics	4+0+0	Elective	6
FİZ4006	Spectroscopic Methods	4+0+0	Elective	6
FİZ4008	Thermonuclear Physics	2+0+0	Compulsory	3
KKÜ0820	Volunteering Works	1+2+0	Elective	4
KKÜ4110	Web Design	3+0+0	Elective	5
			Total ECTS	118