

TOTAL COURSE-PROGRAMME OUTCOMES RELATIONSHIP

* Level of Contribution: 0-None, 1-Lowest, 2-Low, 3-Average, 4-High, 5-Highest

					Programme Outcomes																		
Course Code	Course Name	T	P	ECTS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
1st Year - 1st Semester																							
FIZ1001	PHYSICS I	4	2	7	5	5	5	5	5	3	3	4	3	4	2	1	2	2	1	1	3	4	2
FIZ1003	PHYSICS LABORATORY I	0	2	3	5	5	5	5	5	3	3	4	3	4	2	1	2	2	1	1	3	4	2
FIZ1005	MATHEMATICS I	4	2	6	5	5	4	0	1	3	5	3	1	2	2	2	1	0	1	3	0	2	3
FIZ1007	GENERAL CHEMISTRY I	3	0	4	4	3	3	4	2	4	4	5	4	3	4	2	5	1	1	3	3	4	4
TDL1011	TURKISH I	2	0	2	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	4	2
YDL1013	FOREIGN LANGUAGE I	3	0	3	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	4	2
ATA1015	PRINCIPLES OF ATATURK AND REVOLUTION HISTORY I	2	0	2	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	4	2
ENF1021	BASIC COMPUTER	2	2	3	2	1	1	3	3	2	2	3	4	3	3	5	5	2	1	2	1	3	2
1st Year - 2nd Semester																							
FIZ1002	PHYSICS II	4	2	7	5	5	5	5	5	3	3	4	3	4	2	1	2	2	1	1	3	4	2
FIZ1004	PHYSICS LABORATORY II	0	2	3	5	5	5	5	5	3	3	4	3	4	2	1	2	2	1	1	3	4	2
FIZ1006	MATHEMATICS II	4	2	6	5	5	4	0	1	3	5	3	1	2	2	2	1	0	1	3	0	2	3
FIZ1008	GENERAL CHEMISTRY II	3	0	4	4	3	3	4	2	4	4	5	4	3	4	2	5	1	1	3	3	4	4

TDL1012	TURKISH II	2	0	2	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	4	2
YDL1014	FOREIGN LANGUAGE II	3	0	3	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	4	2
ATA1016	PRINCIPLES OF ATATURK AND REVOLUTION HISTORY II	2	0	2	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	4	2
2nd Year - 3rd Semester																							
FIZ2001	THEORETICAL MECHANICS I	4	0	6	5	4	5	4	3	3	4	5	4	3	3	1	5	2	1	2	1	2	2
FIZ2003	MATHEMATICAL METODS IN PHYCSICS I	2	2	6	5	5	5	4	4	4	3	4	4	5	2	4	5	2	1	1	1	2	1
FIZ2005	DIFERENTIAL EQUATIONS	3	0	5	4	4	5	5	4	5	3	5	4	5	2	4	3	2	1	2	1	1	1
FIZ2007	VIBRATION WAYES AND APPLICATIONS	3	2	6	4	4	5	5	4	5	3	5	4	5	2	4	3	2	1	2	1	1	1
FIZ2009	COMPUTER PROGRAMING	2	0	4	5	3	5	4	3	4	3	4	5	5	2	4	4	2	1	1	2	2	1
	ELECTIVE COURSE	2	0	3	5	3	5	4	3	4	3	4	5	5	2	4	4	2	1	1	2	2	1
2nd Year - 4th Semester																							
FIZ2002	THEORETICAL MECHANICS II	4	0	6	5	4	5	4	3	3	4	5	4	3	3	1	5	2	1	2	1	2	2
FIZ2004	MATHEMATICAL METODS IN PHYCSICS II	2	2	5	5	5	5	4	4	4	3	4	4	5	2	4	5	2	1	1	1	2	1
FIZ2006	PARTIAL DIFERANTIAL EQUATIONS	3	0	6	4	4	5	5	4	5	3	5	4	5	2	4	3	2	1	2	1	1	1
FIZ2008	MODERN PHYCSICS	3	0	5	4	4	5	5	4	5	3	5	4	5	2	4	3	2	1	2	1	1	1
FIZ2010	THERMODINAMICS AND APPLICATIONS	2	2	5	4	4	4	3	5	4	3	4	3	5	3	2	5	2	1	1	1	2	1
	ELECTIVE COURSE	2	0	3	5	3	5	4	3	4	3	4	5	5	2	4	4	2	1	1	2	2	1
3rd Year - 5th Semester																							

FIZ3001	QUANTUM PHYSICS	4	0	6	5	4	5	4	3	3	4	5	4	3	3	1	5	2	1	2	1	2	2
FIZ3003	QUANTUM PHYSICS LABORATORY	0	2	4	5	5	5	4	4	4	3	4	4	5	2	4	5	2	1	1	1	2	1
FIZ3005	ELECTROMAGNETIK THEORY I	4	0	7	4	4	5	5	4	5	3	5	4	5	2	4	3	2	1	2	1	1	1
FIZ3007	QUANTUM MECHANICS I	4	2	7	4	4	5	5	4	5	3	5	4	5	2	4	3	2	1	2	1	1	1
	ELECTIVE COURSE	2	0	3	5	3	5	4	3	4	3	4	5	5	2	4	4	2	1	1	2	2	1
	ELECTIVE COURSE	2	0	3	5	3	5	4	3	4	3	4	5	5	2	4	4	2	1	1	2	2	1
3rd Year - 6th Semester																							
FIZ3002	STATISTICAL PHYSICS	4	0	6	5	4	4	3	3	3	4	4	3	3	4	3	3	1	1	3	2	2	2
FIZ3004	MODERN OPTIK	2	2	6	4	3	4	4	4	4	3	4	4	4	5	2	5	2	2	1	3	2	3
FIZ3006	ELECTROMAGNETIK THEORY II	4	0	6	4	3	5	5	3	2	4	5	5	4	3	1	3	2	1	2	1	2	2
FIZ3008	QUANTUM MECHANICS II	2	2	6	4	3	4	4	4	3	4	4	4	5	4	3	4	3	1	3	3	3	2
	ELECTIVE COURSE	2	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	2	3	0	0	0	0
	ELECTIVE COURSE	2	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	3	0	0	0
4th Year - 7th Semester																							
FIZ4001	RESEARCH PROJECT I*	0	2	5	5	4	4	3	3	3	4	4	3	3	4	3	3	1	1	3	2	2	2
FIZ4003	NUCLEAR PHYSICS I	4	0	6	4	3	4	4	4	4	3	4	4	4	5	2	5	2	2	1	3	2	3
FIZ4005	SOLID STATE PHYSICS I	4	0	7	4	3	5	5	3	2	4	5	5	4	3	1	3	2	1	2	1	2	2
FIZ4007	ELECTRONIC AND APPLICATIONS	3	2	6	4	3	4	4	4	3	4	4	4	5	4	3	4	3	1	3	3	3	2
	ELECTIVE COURSE	2	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	2	3	0	0	0	0
	ELECTIVE COURSE	2	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	3	0	0	0
4th Year - 8th Semester																							

FIZ4002	RESEARCH PROJECTI II*	0	2	5	3	2	3	3	4	5	1	3	3	4	1	5	5	5	3	3	3	5	3
FIZ4004	NUCLEAR PHYSICS II	4	0	6	5	3	5	4	3	4	3	4	5	5	2	4	4	2	1	1	2	2	1
FIZ4006	SOLID STATE PHYSICS II	4	0	7	5	3	5	4	3	4	3	4	5	5	2	4	4	2	1	1	2	2	1
FIZ4008	ATOM AND MOLECULAR PHYSICS	4	0	6	5	3	5	4	3	4	3	4	5	5	2	4	4	2	1	1	2	2	1
	ELECTIVE COURSE	2	0	3	5	3	5	4	3	4	3	4	5	5	2	4	4	2	1	1	2	2	1
	ELECTIVE COURSE	2	0	3	5	3	5	4	3	4	3	4	5	5	2	4	4	2	1	1	2	2	1
2nd Year - 3rd Semester Elective Courses																							
FIZ2011	COMPUTER PROGRAMING IN PHYSICS I	2	0	3	3	2	3	3	4	5	1	3	3	4	1	5	5	5	3	3	3	5	3
FIZ2013	HEAT TRANSFER AND APPLICATIONS	2	0	3	5	3	5	4	3	4	3	4	5	5	2	4	4	2	1	1	2	2	1
FIZ2015	READING AND SPEAKING IN TECHNICAL FOREING LANGUAGE	2	0	3	5	3	5	4	3	4	3	4	5	5	2	4	4	2	1	1	2	2	1
FIZ2017	VIBRATIONS AND APPLICATIONS IN TECHNOLOGY	2	0	3	5	3	5	4	3	4	3	4	5	5	2	4	4	2	1	1	2	2	1
FIZ2019	SPESIFIC TOPICS IN CONDENSED MATTER PHYSISCS I	2	0	3	5	3	5	4	3	4	3	4	5	5	2	4	4	2	1	1	2	2	1
2nd Year - 4th Semester Elective Courses																							
FIZ2012	COMPUTER PROGRAMING IN PHYSICS II	2	0	3	5	3	5	4	4	4	3	4	4	5	2	4	5	2	1	1	1	2	1
FIZ2014	LAST DEVELOPMENTS IN PHYSICS	2	0	3	5	3	5	4	4	4	3	4	4	5	2	4	5	2	1	1	1	2	1
FIZ2016	FOREIGN LANGUAGE FOR BUSINESS LIFE	2	0	3	5	3	5	4	4	4	3	4	4	5	2	4	5	2	1	1	1	2	1
FIZ2018	MAGNETIC PULLUTION AND ENYIRONMENT	2	0	3	5	3	5	4	4	4	3	4	4	5	2	4	5	2	1	1	1	2	1
FIZ2020	SPESIFIC TOPICS IN CONDENSED	2	0	3	5	3	5	4	4	4	3	4	4	5	2	4	5	2	1	1	1	2	1

	MATTER PHYSICS II																						
	3rd Year - 5th Semester Elective Courses																						
FIZ3009	ASTRONOMY	2	0	3	5	3	5	4	4	4	3	4	4	5	2	4	5	2	1	1	1	2	1
FIZ3011	TECHNIQUES OF DATA ANALYSIS	2	0	3	5	3	5	4	4	4	3	4	4	5	2	4	5	2	1	1	1	2	1
FIZ3013	ACCELERATOR PHYSICS	2	0	3	5	3	5	4	4	4	3	4	4	5	2	4	5	2	1	1	1	2	1
FIZ3015	SOLID STATE PHYSICS	2	0	3	5	3	5	4	4	4	3	4	4	5	2	4	5	2	1	1	1	2	1
FIZ3017	MOLECULAR PHYSICS	2	0	3	5	3	5	4	4	4	3	4	4	5	2	4	5	2	1	1	1	2	1
FIZ3019	OPTOELECTRONIC	2	0	3	5	3	5	4	4	4	3	4	4	5	2	4	5	2	1	1	1	2	1
FIZ3021	NUMERICAL PHYSICS	2	0	3	5	3	5	4	4	4	3	4	4	5	2	4	5	2	1	1	1	2	1
FIZ3023	PHYSICS OF SUPER CONDUCTONS	2	0	3	5	3	5	4	4	4	3	4	4	5	2	4	5	2	1	1	1	2	1
FIZ3025	MATERIAL SCIENCES I	2	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0
	3rd Year - 6th Semester Elective Courses																						
FIZ3010	ASTROPHYSICS	2	0	3	5	5	4	3	4	3	4	4	4	3	5	3	3	1	1	4	2	2	3
FIZ3012	BIOPHYSICS	2	0	3	5	4	4	3	5	3	4	4	4	3	4	3	2	1	1	4	2	3	3
FIZ3014	ELECTRICAL CONDUCTIYITY OF SOLIDS	2	0	3	4	4	4	3	4	3	5	4	4	3	4	3	3	1	1	4	2	3	3
FIZ3016	LASER PHYSICS	2	0	3	4	5	4	3	4	3	5	4	4	4	4	3	3	1	1	4	2	3	3
FIZ3018	APPLICATIONS OF OPTOELECTRONIC	2	0	3	5	5	4	3	4	3	4	4	4	3	5	3	3	1	1	4	2	2	3
FIZ3020	DATA ANALYSIS WITH PACKAGE PROGRAMS	2	0	3	5	4	4	3	5	3	4	4	4	3	4	3	2	1	1	4	2	3	3
FIZ3022	SPECTRAL ANALYSIS	2	0	3	4	4	4	3	4	3	5	4	4	3	4	3	3	1	1	4	2	3	3
FIZ3024	APPLICATIONS OF SUPER CONDOCTIONS	2	0	3	4	5	4	3	4	3	5	4	4	4	4	3	3	1	1	4	2	3	3

FIZ3026	MATERIAL SCIENCES II	2	0	3	4	4	4	3	4	3	5	4	4	3	4	3	3	1	1	4	2	3	3
	4th Year - 7th Semester Elective Courses																						
FIZ4009	PHYSICAL METALLURGY I	2	0	3	5	3	5	4	4	4	3	4	4	5	2	4	5	2	1	1	1	2	1
FIZ4011	INTEGRAL TRANSFORMS OF SPECIAL FUNCTIONS IN PHYSICS	2	0	3	5	3	5	4	4	4	3	4	4	5	2	4	5	2	1	1	1	2	1
FIZ4013	SOLAR ENERGY	2	0	3	5	3	5	4	4	4	3	4	4	5	2	4	5	2	1	1	1	2	1
FIZ4015	PHYSICS WITH CALCULATION	2	0	3	5	3	5	4	4	4	3	4	4	5	2	4	5	2	1	1	1	2	1
FIZ4017	ELECTRICAL PROPERTIES OF MATTER	2	0	3	5	3	5	4	4	4	3	4	4	5	2	4	5	2	1	1	1	2	1
FIZ4019	CHARACTERIZATION OF MATERIALS	2	0	3	5	3	5	4	4	4	3	4	4	5	2	4	5	2	1	1	1	2	1
FIZ4021	MAGNETIC RESONANCE	2	0	3	5	3	5	4	4	4	3	4	4	5	2	4	5	2	1	1	1	2	1
FIZ4023	NANOSCIENCE AND NANOTECHNOLOGY	2	0	3	5	3	5	4	4	4	3	4	4	5	2	4	5	2	1	1	1	2	1
FIZ4025	NUCLEAR MEDICAL PHYSICS	2	0	3	5	3	5	4	4	4	3	4	4	5	2	4	5	2	1	1	1	2	1
FIZ4027	RADIATION AND ENVIRONMENT SCIENCES	2	0	3	5	3	5	4	4	4	3	4	4	5	2	4	5	2	1	1	1	2	1
FIZ4029	PHYSICS OF SEMICONDUCTIVITY	2	0	3	5	3	5	4	4	4	3	4	4	5	2	4	5	2	1	1	1	2	1
FIZ4031	HIGH ENERGY PHYSICS	2	0	3	5	3	5	4	4	4	3	4	4	5	2	4	5	2	1	1	1	2	1
FIZ4033	X-RAY DIFFRACTION	2	0	3	4	4	5	4	5	4	4	3	3	5	3	2	5	2	1	1	1	2	1
	4th Year - 8th Semester Elective Courses																						
FIZ4010	PHYSICALMETLLURGY II	2	0	3	5	5	4	3	4	3	4	4	4	3	5	3	3	1	1	4	2	2	3
FIZ4012	LOW TEMPERATURE PHYSICS	2	0	3	5	4	4	3	5	3	4	4	4	3	4	3	2	1	1	4	2	3	3
FIZ4014	ELECTRON SPIN REONANCE	2	0	3	4	4	4	3	4	3	5	4	4	3	4	3	3	1	1	4	2	3	3

FIZ4016	PHILOSOPY OF SCIENCE	2	0	3	4	5	4	3	4	3	5	4	4	4	4	3	3	1	1	4	2	3	3
FIZ4018	SOLIDIFICATION AND PHASE TRANSFORMSI	2	0	3	5	5	4	3	4	3	4	4	4	3	5	3	3	1	1	4	2	2	3
FIZ4020	MAGNETIC PROPERTIES OF MATTER	2	0	3	5	4	4	3	5	3	4	4	4	3	4	3	2	1	1	4	2	3	3
FIZ4022	APPLICATION OF NUCLEAR TECHNIQUES	2	0	3	4	4	4	3	4	3	5	4	4	3	4	3	3	1	1	4	2	3	3
FIZ4024	PLASMA PHYSICS	2	0	3	4	5	4	3	4	3	5	4	4	4	4	3	3	1	1	4	2	3	3
FIZ4026	RADIATION AND HEALTH PHYSICS	2	0	3	4	4	4	3	4	3	5	4	4	3	4	3	3	1	1	4	2	3	3
FIZ4028	SPACE AND SPACE TECHNOLOGIES	2	0	3	4	5	4	3	4	3	5	4	4	4	4	3	3	1	1	4	2	3	3
FIZ4030	VECTOR ANALYSIS	2	0	3	5	5	4	3	4	3	4	4	4	3	5	3	3	1	1	4	2	2	3