

IZMIR INSTITUTE OF TECHNOLOGY
FACULTY OF SCIENCE
DEPARTMENT OF PHYSICS
UNDERGRADUATE PROGRAM

First Semester				PRCD/CRCO	ECTS
PHYS	101	General Physics I	(2+2)3		6
PHYS	111	General Physics Lab I	(0+2)1	CRCO: PHYS 101	2
MATH	145	Calculus for Engineering and Science I	(4+2)5		7
CHEM	121	General Chemistry I	(3+0)3		5
CHEM	141	General Chemistry Lab I	(0+2)1		2
MBG	101	Biology I	(3+0)3		5
ENG	101	Development of Reading and Writing Skills I	(3+0)3		3
				19 Credits	30

Second Semester				PRCD/CRCO	ECTS
PHYS	102	General Physics II	(2+2)3		6
PHYS	112	General Physics Lab II	(0+2)1	CRCO: PHYS 102	2
MATH	146	Calculus for Engineering and Science II	(4+2)5		8
CHEM	122	General Chemistry II	(3+0)3		5
CHEM	142	General Chemistry Lab II	(0+2)1		2
MBG	102	Biology II	(3+0)3		4
ENG	102	Development of Reading and Writing Skills II	(3+0)3		3
				19 Credits	30

Third Semester				PRCD/CRCO	ECTS
PHYS	201	Waves and Optics	(4+0)4	PRCD: PHYS 102	6
PHYS	203	Classical Mechanics I	(3+0)3	PRCD: PHYS 102	5
PHYS	241	Introductory Electronic Circuits	(1+2)2	PRCD: PHYS 102	5
MATH	255	Differential Equations	(4+0)4	PRCD: MATH 145	6
MATH	265	Basic Linear Algebra	(3+0)3		4
HIST	201	Principles of Kemal Atatürk I	(2+0) NC		2
TURK	201	Turkish Language I	(2+0) NC		2
				16 Credits	30

Fourth Semester				PRCD/CRCO	ECTS
PHYS	204	Classical Mechanics II	(3+0)3	PRCD: PHYS 203	5
PHYS	212	Waves and Optics Lab	(0+4)2	PRCD: PHYS 201	2
PHYS	214	Programming for Physicists	(2+2)3		5
PHYS	222	Modern Physics	(4+0)4	PRCD: PHYS 101, PHYS 102	5
PHYS	256	Calculus of Complex Variables	(3+0)3		5
PHYS	266	Mathematical Methods of Physics	(3+0)3		4
HIST	202	Principles of Kemal Atatürk II	(2+0) NC		2
TURK	202	Turkish Language II	(2+0) NC		2
				18 Credits	30

Fifth Semester				PRCD/CRCO	ECTS
PHYS	301	Electromagnetic Theory I	(4+0)4	PRCD: MATH 255	8
PHYS	305	Experiments in Modern Physics	(0+4)2	PRCD: PHYS 222	8
PHYS	321	Quantum Mechanics I	(3+0)3	PRCD: PHYS 222	8
		Elective I	(3+0)3		6
12 Credits					30

Sixth Semester				PRCD/CRCO	ECTS
PHYS	302	Electromagnetic Theory II	(4+0)4	PRCD: PHYS 301	8
PHYS	322	Quantum Mechanics II	(3+0)3	PRCD: PHYS 321	8
PHYS	326	Statistical Thermodynamics	(4+0)4	PRCD: PHYS 321	8
		Elective II	(3+0)3		6
14 Credits					30

Seventh Semester				PRCD/CRCO	ECTS
PHYS	421	Quantum Mechanics III	(3+0)3	PRCD: PHYS 322	9
PHYS	431	Condensed Matter Physics I	(3+0)3	PRCD: PHYS 322	9
		Elective III	(3+0)3		6
		Elective IV	(3+0)3		6
12 Credits					30

Eight Semester				PRCD/CRCO	ECTS
PHYS	432	Condensed Matter Physics II	(3+0)3	PRCD: PHYS 322, PHYS 431	9
PHYS	452	Introduction to Particle Physics	(3+0)3	PRCD: PHYS 322	9
		Elective V	(3+0)3		6
		Elective VI	(3+0)3		3
		Elective VII	(3+0)3		3
15 Credits					30

TOTAL				125 CREDITS	240
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