

İZMİR INSTITUTE OF TECHNOLOGY
FACULTY OF SCIENCE
CHEMISTRY DEPARTMENT
(To be applied up to the 2011-2012 academic year)

1st SEMESTER

			PREREQUISITE (PREREQ.) COREQUISITE (COREQ.)
CHEM	111	General Chemistry I	(4+0)4
CHEM	103	Technical English for Chemistry I	(1+0)1
CHEM	113	General Chemistry Lab. I	(0+4)2 (COREQ) CHEM 111
CS	101	Basic Information Technology	(1+2)NC
ENG	101	Development of Reading and Writing Skills I	(3+0)3
MATH	141	Basic Calculus I	(3+2) 4
PHYS	101	General Physics I	(2+2) 3
PHYS	111	General Physics Lab. I	(0+2)1

Credits : 18

2nd SEMESTER

			PREREQUISITE (PREREQ.) COREQUISITE (COREQ.)
CHEM	112	General Chemistry II	(4+0)4
CHEM	104	Technical English for Chemistry II	(1+0)1
CHEM	114	General Chemistry Lab. II	(0+4)2 (COREQ.) CHEM 112
CS	102	Basic Computer Science and Programming	(2+2)3
ENG	102	Development of Reading and Writing Skills II	(3+0)3
MATH	142	Basic Calculus II	(3+2)4
PHYS	102	General Physics II	(2+2)3
PHYS	112	General Physics Lab. II	(0+2)1

Credits : 21

3rd SEMESTER

			PREREQUISITE (PREREQ.) COREQUISITE (COREQ.)
CHEM	213	Analytical Chemistry I	(3+0)3 (PREREQ.)CHEM 111, 112, 113 and 114
CHEM	205	Organic Chemistry I	(4+0)4 (PREREQ.)CHEM 111, 112, 113, 114 or CHEM 101, 102
CHEM	211	Mathematics for Chemists	(2+2)3 (PREREQ.)MATH 141, MATH 142
CHEM	215	Analytical Chemistry Laboratory I	(0+4)2 (PREREQ. or COREQ.)CHEM 213
CHEM	207	Organic Chemistry Laboratory I	(0+4)2 (PREREQ. Or COREQ.)CHEM 205
TURK	201	Turkish Language I	(2+0) NC
HIST	201	Principles of Atatürk I	(2+0) NC
		Non-technical Elective	(3+0)3

Credits : 17

4th SEMESTER

CHEM	214	Analytical Chemistry II	(3+0) 3
CHEM	206	Organic Chemistry II	(4+0) 4
CHEM	216	Analytical Chemistry Lab. II	(0+4) 2
CHEM	208	Organic Chemistry Lab. II	(0+6) 3
TURK	202	Turkish Language II	(2+0) NC
HIST	202	Principles of Kemal Atatürk II	(2+0) NC
		Non-Technical Elective	(3+0) 3

Credits : 15

**PREREQUISITE
(PREREQ.)
COREQUISITE
(COREQ.)**

(PREREQ.)CHEM 111, 113, 112, 114
(PREREQ. Or COREQ.)CHEM 214
(PREREQ.)CHEM 205, 207
(PREREQ.OR COREQ.)CHEM 206

5th SEMESTER

CHEM	301	Inorganic Chemistry I	(4+0) 4
CHEM	303	Physical Chemistry I	(4+0) 4
CHEM	309	Instrumental Analysis	(3+0) 3
CHEM	305	Physical Chemistry Lab. I	(0+4) 2
CHEM	311	Instrumental Analysis Laboratory	(0+4) 2
		Non-Technical Elective	(3+0) 3

Credits : 18

**PREREQUISITE
(PREREQ.)
COREQUISITE
(COREQ.)**

(PREREQ.)CHEM 111, 112, 113, 114
(PREREQ.)CHEM 111, 112, 113, 114 and 211 PHYS 131, 132
(PREREQ.)CHEM 111, 112, 113 and 114
(PREREQ. OR COREQ.)CHEM 303
(PREREQ. OR COREQ.)CHEM 309

6th SEMESTER

CHEM	302	Inorganic Chemistry II	(4+0) 4
CHEM	306	Physical Chemistry II	(4+0) 4
CHEM	312	Introduction to Quantum Chemistry	(2+2) 3
CHEM	304	Inorganic Chemistry Laboratory	(0+4) 2
CHEM	308	Physical Chemistry Lab. II	(0+4) 2
		Technical Elective	(3+0) 3

Credits : 18

**PREREQUISITE
(PREREQ.)
COREQUISITE
(COREQ.)**

(PREREQ.)CHEM 111, 112, 113 and 114
(PREREQ.)CHEM 111, 112, 113, 114 and 211 PHYS 131 and 132
(PREREQ.)CHEM 111, 112, 113, 114 and 211 PHYS 131 and 132
(PREREQ. Or COREQ.) CHEM 302
(PREREQ. Or COREQ.) CHEM 306

7th SEMESTER

CHEM	300	Summer Practice	NC
CHEM	411	Biochemistry	(3+0) 3
CHEM	475	Graduation Project I	(0+4) NC
		Non- Technical Elective	(3+0) 3
		Technical Elective	(3+0) 3
		Technical Elective	(3+0) 3

Credits : 12

**PREREQUISITE
(PREREQ.)
COREQUISITE
(COREQ.)**

(PREREQ.)CHEM 111, 112, 113, 114

8th SEMESTER

**PREREQUISITE
(PREREQ.)
COREQUISITE
(COREQ.)**

CHEM	476	Graduation Project II	(0+6)3	
		Technical Elective	(3+0)3	
		Technical Elective	(3+0)3	
		Technical Elective	(3+0)3	
		Credits :		12

Total Credits : 131