THE CURRICULUM OF THE FIRST EDUCATION PROGRAMME OF THE CHEMISTRY DE ACADEMIC Y

FIRS

I. Semester

Available course code	Suggested course code	Name of the course	C/E	T	Α	С
PHYS1011	PHYS1113	GENERAL PHYSICS I	Z	4	0	4
CHEM1101	CHEM1101	GENERAL CHEMISTRY I	Z	6	0	6
CHEM1003	CHEM1110	GENERAL CHEMISTRY LABORATORY I	Z	0	4	2
MAT1011	MATH1141	ANALYSIS I	Z	4	0	4
TRD109	TRD109	TURKISH LANGUAGE	Z	2	0	2
YDİ107	YDİ107	ENGLISH	Z	2	0	2
PHYS1005	PHYS1107	GENERAL PHYSICS LABORATORY I	Z	0	2	1
CHEM1XXX	CHEM1XXX	FIELD ELECTIVE-1	S	2	0	2
		Field Elective Course List				
CHEM1013	CHEM1113	LABORATORY TECHNIQUE AND SAFETY	S	2	0	2
CHEM1015	CHEM1115	SOURCE SCANNING AND REPORT PREPARATION	S	2	0	2
		Semester Total		20	6	23

SECO

III. Semester

Available course code	Suggested course code	Name of the course	C/E	Т	A	C
AİT209	AİT209	ATATÜRK PRINCIPLES AND HISTORY OF REVOLUTION	Z	2	0	2
CHEM2021	CHEM2121	ANALITICAL CHEMISTRY I	Z	4	0	4
CHEM2023	CHEM2123	ANALITICAL CHEMISTRY LABORATORY I	Z	0	4	2
CHEM2025	CHEM2125	COMPUTERS APPLICATIONS FOR CHEMISTS	Z	2	0	2
CHEM2031	CHEM2131	ORGANIC CHEMISTRY I	Z	4	0	4
CHEM2001	MATH2123	ADVANCED MATHS	Z	3	0	3
CHEM2027	CHEM2127	ANORGANIC CHEMISTRY I	Z	4	0	4
YDİ207	YDi207	ENGLISH	Z	2	0	2
	SEC2101	SOCIAL ELECTIVE COURSE-I	S	2	0	2
		Semester Total		23	4	25

THIF

		V. Semester				
Available course code	Suggested course code	Name of the course	C/E	Т	Α	С
CHEM3031	CHEM3131	ORGANİIC CHEMISTRY III	Z	4	0	4
CHEM3023	CHEM3123	ANALITICAL CHEMISTRY III	Z	2	0	2
CHEM3053	CHEM3153	BIOINORGANIK CHEMISTRY	Z	2	0	2
CHEM3021	CHEM3121	INSTRUMENTAL ANALYIS	Z	4	0	4
CHEM3033	CHEM3133	ORGANIC CHEMISTRY LABORATORY I	Z	0	4	2
CHEM3041	CHEM3141	PHYSICAL CHEMISTRY I	Z	4	0	4
CHEM3037	CHEM3137	SPECTRO ORGANIC ANALYSIS	Z	2	0	2
	SEC3101	SOCIAL ELECTIVE COURSE-III	S	2	0	2
		Semester Total		20	4	22
						FOUF
		VII. Semester				
Available course code	Suggested course code	Name of the course	C/E	Т	Α	С
CHEM4001	CHEM4101	SEMINAR	Z	0	2	1
CHEM4041	CHEM4141	PHYSICAL CHEMISTRY III	Z	4	0	4
CHEM4061	CHEM4161	BIOCHEMISTRY I	Z	4	0	4
CHEM4054	CHEM4153	QUANTUM CHEMISTRY	Z	2	0	2
CHEM4051	CHEM4151	POLYMER CHEMISTRY LABORATORY	Z	0	2	1
CHEM4XXX	CHEM4XXX	FIELD ELECTIVE 1	S	2	0	2
CHEM4XXX	CHEM4XXX	FIELD ELECTIVE 2	S	2	0	2
CHEM4XXX	CHEM4XXX	FIELD ELECTIVE 3	S	2	0	2
CHEM4XXX	CHEM4XXX	FIELD ELECTIVE 4	S	2	0	2
		FIELD ELECTIVE COURSE LISTS				
CHEM4021	CHEM4121	SPECTROSCOPY	S	2	0	2

		Total ECTS credits Application Ratio			24 25.		
		Total Course Hours			19		
		Total Credit			17		
		Total Application Course Hours			5	0	
	•	Total Theoretical Course Hours			14	16	
		SEMESTER TOTAL			18	4	20
CHEM4029	CHEM4129	CONDUCTIVE POLYMERS		S	2	0	2
CHEM4027	CHEM4127	POLYMER COMPOSITES		S	2	0	2
CHEM4025	CHEM4125	PHYTOTHERAPY AND BIOCHEMISTRY	_	S	2	0	2
CHEM4055	CHEM4155	COORDINATION CHEMISTRY		S	2	0	2
CHEM4059	CHEM4159	PETROCHEMISTRY		S	2	0	2
CHEM4043	CHEM4143	PLASTIC TECHNOLOGY		S	2	0	2
CHEM4035	CHEM4135	BIOORGANIC CHEMISTRY		S	2	0	2
CHEM4039	CHEM4139	HETEROCYCLIC COMPOUNDS		S	2	0	2
CHEM4023	CHEM4123	INDUSTRIAL SEPARATION METHODS		S	2	0	2

		CHEMISTRY DEPA	RTME	NT A	UTL	MN
Available course code	Suggested course code	Name of the course	C/E	Т	Α	С
CHEM105	CHEM1105	GENERAL CHEMISTRY	Z	4	0	4
CHEM109	CHEM1109	GENERAL CHEMISTRY LABORATORY	Z	0	2	1
CHEM111	CHEM1111	GENERAL CHEMISTRY I	Z	3	0	3
CHEM101	CHEM1101	GENERAL CHEMISTRY I	Z	4	0	4
CHEM225	CHEM2125	ANALYTICAL CHEMISTRY	Z	2	0	2
CHEM331	CHEM3131	INSTRUMENTAL ANALYSIS	Z	2	0	2
CHEM221	CHEM2121	ANALITICAL CHEMISTRY	Z	3	0	3
CHEM241	CHEM2141	PHYSICAL CHEMISTRY	Z	3	0	3
CHEM227	CHEM2127	ANALYTICAL CHEMISTRY LABORATORY	Z	0	3	1
CHEM233	CHEM2133	ORGANIC CHEMISTRY I	Z	2	0	2
CHEM109	CHEM1109	GENERAL CHEMISTRY I	Z	3	0	3
CHEM115	CHEM1115	GENERAL CHEMISTRY	Z	2	2	3
CHEM113	CHEM1113	GENERAL CHEMISTRY LABORATORY	Z	0	2	1
CHEM111	CHEM1111	GENERAL CHEMISTRY I	Z	2	2	3
CHEM101	CHEM1101	GENERAL CHEMISTRY	Z	2	0	2
CHEM103	CHEM1103	GENERAL CHEMISTRY	Z	2	0	2
CHEM101	CHEM1101	GENERAL CHEMISTRY	Z	2	0	2
CHEM105	CHEM1105	GENERAL CHEMISTRY	Z	2	0	2
		CHEMISTRY DEP	 Artmr	NT C	SDD1	NG
		CHEMISTRI DEF	7171111	-141) F K	110
Available	Suggested source		T	1	T	

		CHEMISIKI DEP	AK I IVIE	:141 5) P K I	ING S
Available course code	Suggested course code	Name of the course	C/E	Т	A	С

		-				
CHEM110	CHEM1110	GENERAL CHEMISTRY LABORATORY	Z	0	2	1
CHEM106	CHEM1106	GENERAL CHEMISTRY	Z	2	0	2
CHEM114	CHEM1114	GENERAL CHEMISTRY	Z	4	0	4
CHEM110	CHEM1110	GENERAL CHEMISTRY LABORATORY	Z	0	2	1
CHEM106	CHEM1106	GENERAL CHEMISTRY	Z	4	0	4
CHEM110	CHEM1110	GENERAL CHEMISTRY II	Z	3	0	3
CHEM114	CHEM1114	GENERAL CHEMISTRY LABORATORY	Z	0	2	1
CHEM234	CHEM2134	ORGANIC CHEMISTRY II	Z	2	0	2
CHEM142	CHEM1142	PHYSICAL CHEMISTRY	Z	3	0	3
CHEM236	CHEM2136	ORGANIC CHEMISTRY	Z	3	0	3
CHEM112	CHEM1112	GENERAL CHEMISTRY II	Z	2	2	3
CHEM110	CHEM1110	GENERAL CHEMISTRY LABORATORY	Z	0	3	1
CHEM102	CHEM1102	GENERAL CHEMISTRY II	Z	4	0	4
CHEM120	CHEM1120	ORGANIC CHEMISTRY	Z	2	0	2
CHEM324	CHEM3124	INSTRUMENTAL ANALYSIS	Z	0	3	1
CHEM234	CHEM2134	ORGANIC CHEMISTRY II	Z	3	0	3
CHEM112	CHEM1112	GENERAL CHEMISTRY II	Z	3	0	3

PARTMENT OF THE FACULTY OF SCIENCE TO BE IMPLEMENTED STARTING FROM THE EAR 2025-2026

T YEAR

			II. Semester				
ECTS	Available course code	Suggested course code	Name of the course	C/E	Т	A	С
5	PHYS1012	PHYS1114	GENERAL PHYSICS II	Z	4	0	4
6	CHEM1002	CHEM1102	GENERAL CHEMISTRY II	Z	6	0	6
4	CHEM1004	CHEM1104	GENERAL CHEMISTRY LABORATORY II	Z	0	4	2
5	MATH1002	MATH1142	ANALYSIS II	Z	4	0	4
2	PHYS1006	PHYS1110	GENERAL PHYSICS LABORATORY II	Z	0	2	1
2	TRD110	TRD110	TURKISH LLANGUAGE	Z	2	0	2
2	YDİ108	YDİ108	ENGLISH	Z	2	0	2
4							
4							
4							
30			Semester Total		18	6	21

ND YEAR

			IV. Semester							
ECTS	Available course code	Suggested course code	Name of the course	C/E	Т	Α	С			
2	AİT202	AİT202	ATATÜRK PRINCIPLES AND HISTORY OF REVOLUTION	Z	2	0	2			
5	CHEM2022	CHEM2122	ANALYTICAL CHEMISTRY II	Z	4	0	4			
4	CHEM2024	CHEM2124	ANALYTICAL CHEMISTRY LABORATORY II	Z	0	4	2			
3	CHEM2032	CHEM2132	ORGANIC CHEMISTRY II	Z	4	0	4			
4	CHEM2028	CHEM2128	INORGANIC CHEMISTRY II	Z	4	0	4			
3	YDİ208	CHEM208	ENGLISH	Z	2	0	2			
4	CHEM2XXX	CHEM2XXX	FIELD ELECTIVE-1	S	2	0	2			
2		SEC2102	SOCIAL ELECTIVE COURSE-II	S	2	0	2			
3			FIELD ELECTIVE COURSE LISTS							
	CHEM2026	CHEM2126	MECHANISM OF ORGANIC REACTION	S	2	0	2			
	CHEM2030	CHEM2130	RENEVABLE ENERGYSOURCES	S	2	0	2			
30			Semester Total		20	4	22			

RD YEAR

			VI. Semester				
ECTS	Available course code	Suggested course code	Name of the course	C/E	Т	Α	С
6	CHEM3024	CHEM3124	INSTRUMENTAL ANALYSIS LABORATORY	Z	0	4	2
3	CHEM3034	CHEM3134	ORGANIC CHEMISTRY LABORATORY II	Z	0	4	2
2	CHEM3042	CHEM3142	PHYSICAL CHEMISTRY II	Z	4	0	4
6	CHEM3040	CHEM3140	POLYMER CHEMISTRY	Z	3	0	3
3	CHEM3044	CHEM3144	INORGANIC CHEMISTRY LABORATORY	Z	0	4	2
4	CHEM3XXX	CHEM 3XXX	FIELD ELECTIVE 1	S	2	0	2
3	CHEM3XXX	CHEM3XXX	FIELD ELECTIVE 2	S	2	0	2
3		SEC3102	SOCIAL ELECTIVE COURSE-IV	S	2	0	2
			FIELD ELECTIVE COURSE LISTS				
	CHEM3046	CHEM3146	COMPUTATIONAL ORGANIC CHEMISTRY	S	2	0	2
	CHEM3048	CHEM3148	FORENSIC CHEMISTRY	S	2	0	2
	CHEM3004	CHEM3104	FOOD CHEMISTRY	S	2	0	2
	CHEM3012	CHEM3112	VOCATIONAL FOREIGN LANGUAGE	S	2	0	2
	CHEM3038	CHEM3138	REACTIVE INTERMEDIATES IN ORGANIC CHEMISTRY	S	2	0	2
	CHEM3060	CHEM3160	CARBONYL CHEMISTRY	S	2	0	2
	CHEM3056	CHEM3156	POLYMER TECHNOLOGY	S	2	0	2
30			Semester Total		13	12	19

RTH YEAR

			VIII. Semester				
ECTS	Available course code	Suggested course code	Name of the course	C/E	Т	Α	С
2	CHEM4050	CHEM4150	FINAL PROJECT	Z	0	2	1
4	CHEM4064	CHEM4164	BIOCHEMISTRY LABORATORY	Z	0	4	2
4	CHEM4062	CHEM4162	BIOCHEMISTRY II	Z	4	0	4
2	CHEM4042	CHEM4142	PHYSICAL CHEMISTRY LABORATORY	Z	0	4	2
2	CHEM4044	CHEM4144	ELEKTROKİMYA	Z	2	0	2
4	CHEM4XXX	CHEM4XXX	FIELD ELECTIVE 1	S	2	0	2
4	CHEM4XXX	CHEM4XXX	FIELD ELECTIVE 2	S	2	0	2
4	CHEM4XXX	CHEM4XXX	FIELD ELECTIVE 3	S	2	0	2
4	CHEM4XXX	CHEM4XXX	FIELD ELECTIVE 4	S	2	0	2
			FIELD ELECTIVE COURSE LISTS				
4	CHEM4060	CHEM4160	BIOTECHNOLOGY	S	2	0	2

4	CHEM4012	CHEM4112	VOCATIONAL FOREIGN LANGUAGE	S	2	0	2
4	CHEM4020	CHEM4120	NUCLEAR CHEMISTRY	S	2	0	2
4	CHEM4032	CHEM4132	CHEMISTRY OF DYES	S	2	0	2
4	CHEM4034	CHEM4134	TEXTILE CHEMISTRY	S	2	0	2
4	CHEM4036	CHEM4136	SOLID STATE CHEMISTRY	S	2	0	2
4	CHEM4038	CHEM4138	STEREOCHEMISTRY	S	2	0	2
4	CHEM4058	CHEM4158	TURKISH CHEMICAL INDUSTRIES	S	2	0	2
4	CHEM4022	CHEM4122	CELL AND TISSUE CULTURE PREPARATION TECHNIQUES	S	2	0	2
4	CHEM4024	CHEM4124	CLINIC BIOCHEMISTRY	S	2	0	2
30	CHEM4026	CHEM4126	NANOTECHNOLOGY	S	2	0	2
	CHEM4028	CHEM4128	TOXICOLOGY	S	2	0	2
	CHEM4030	CHEM4130	POLYMERIC NANOMATERIALS	S	2	0	2
	-		SEMESTER TOTAL		14	10	19

SEMESTER SERV	ICE COMMON COURSES
ECTS	FACULTY (DEPARTMENT)
6	FACULTY OF ENGINEERING
2	FACULTY OF ENGINEERING
4	FACULTY OF SCIENCE (MOLECULAR BIOLOGY AND GENETICS)
6	FACULTY OF ENGINEERING (CHEMICAL ENGINEERING)
3	FACULTY OF ENGINEERING (CHEMICAL ENGINEERING)
3	FACULTY OF ENGINEERING (CHEMICAL ENGINEERING)
4	FACULTY OF SCIENCE (MOLECULAR BIOLOGY AND GENETICS)
5	FACULTY OF ENGINEERING (CHEMICAL ENGINEERING)
3	FACULTY OF ENGINEERING (CHEMICAL ENGINEERING)
3	FACULTY OF SCIENCE (DEPARTMENT OF BIOLOGY)
4	FACULTY OF SCIENCE (DEPARTMENT OF PHYSICS
4	FACULTY OF AQUACULTURE
2	FACULTY OF SCIENCE (DEPARTMENT OF PHYSICS)
4	FACULTY OF SCIENCE (DEPARTMENT OF BIOLOGY)
3	KEBAN VOCATIONAL SCHOOL (OCCUPATIONAL
3	HEALTH AND SAFETY)
3	KEBAN VOCATIONAL SCHOOL (GEOTECHNICS)
3	KEBAN VOCATIONAL SCHOOL (FOOD TECHNOLOGY)
3	KEBAN VOCATIONAL SCHOOL (ENVIRONMENTAL PROTECTION AND CONTRO
EMESTER SERV	ICE COMMON COURSES
ECTS	FACULTY (DEPARTMENT)

2	FACULTY OF ENGINEERING			
4	FACULTY OF ENGINEERING			
6	FACULTY OF TECHNOLOGY (AUTOMOTIVE)			
2	FACULTY OF TECHNOLOGY (AUTOMOTIVE)			
4	FACULTY OF ENGINEERING (ELECTRICAL ENG	SINEERING)		
4	FACULTY OF SCIENCE (DEPARTMENT OF PHY	'SICS)		
2	FACULTY OF SCIENCE DEPARTMENT OF PHYS	SICS)		
3	FACULTY OF SCIENCE (DEPARTMENT OF BIO	LOGY)		
4	FACULTY OF ENGINEERING (DEPARTMENT C	F MATERIALS	S-METALL	URGY)
4	FACULTY OF ENGINEERING (CHEMICAL ENGI	NEERING)		
4	FACULTY OF SCIENCE (DEPARTMENT OF BIO	LOGY)		
4	FACULTY OF ENGINEERING (CHEMICAL ENGI	NEERING)		
6	FACULTY OF ENGINEERING (CHEMICAL ENGI	NEERING)		
2	FACULTY OF ENGINEERING (BIOENGINEERIN	.G)		
3	FACULTY OF ENGINEERING (CHEMICAL ENGI	NEERING)		
4	FACULTY OF SCIENCE (MOLECULAR BIOLOGY	AND GENET	TCS)	
4	FACULTY OF SCIENCE (MOLECULAR BIOLOGY	AND GENET	TCS)	

ECTS

ECTS

ECTS

ECTS

L)

I		
1		

l