

Table 5.1. Course schedule by semesters and years of studies for the study program: Technological engineering

Module: Inorganic Chemical Technology

No.	Code	Course Title	Seme ster	Type	Status of the course	Classes of active teaching			Other classes	ECTS
						Lectur es	Exercis es	Other form of teaching		
FIRST YEAR										
1.	ОИМ1М1	Mathematics 1	1	TM	O3	3	3	0	0	8
2.	ОТИ1Ф	Physics	1	TM	O3	3	1	2	0	8
3.	ОТИ1ОХ	General Chemistry	1	TM	O3	3	1	2	0	8
4.	ОИМ1И1	Informatics 1	1	AE	O3	2	0	0	0	4
5.	ОИМ1ЕJ1	English Language1	1	AE	O3	1	1	0	0	2
6.	ОТИ1НХ	Inorganic Chemistry	2	TM	O3	3	1	2	0	8
7.	ОИМ1И2	Informatics 2	2	AE	O3	2	2	0	0	6
8.	ОТИ1ИГ	Engineering Graphics	2	AE	O3	2	1	1	0	6
9.	ОТИ1М2	Mathematics 2	2	TM	O3	3	3	0	0	8
10.	ОИМ1ЕJ1	English Language 1	2	AE	O3	1	1	0	0	2
Total hours of active teaching in the year of study = 23 + 21 = 44										
SECOND YEAR										
1.	ОИМ2С	Statistics	3	TM	O3	3	3	0	0	9
2.	ОТИ2ФХ	Physical Chemistry	3	SP	O3	3	1	2	0	9
3.	ОРИ2МП	Mineralogy and Petrography	3	SP	O3	3	3	0	0	8
4.	ОИМ2ЕJ2	English Language 2	3	AE	O3	1	1	0	0	4
5.	ОТИ2АХ	Analytical Chemistry	4	SP	O3	3	1	2	0	8
6.	ОТИ2Т	Thermodynamics	4	SP	O3	3	3	0	0	6
7.	ОТИ2ОЕ	Fundamentals of Electrical Engineering	4	AE	O3	3	2	0	0	8
8.	ОТИ2ОХ	Organic Chemistry	4	SP	O3	3	1	2	0	6
9.	ОИМ2ЕJ2	English Language 2	4	AE	O3	1	1	0	0	2
Total hours of active teaching in the year of study = 23 + 22 = 45										
THIRD YEAR										
1.	ОИМ3ЕJ3	English Language 3	5	AE	O3	1	1	0	0	2
2.	ОТИ3ТОХТ	Theoretical Foundations of Chemical Technology	5	SP	O3	3	3	0	0	6
3.	ОТИ3ТО1	Technological Operations 1	5	SP	O3	3	2	1	0	8
4.	ОТИ3НХ2	Inorganic Chemistry 2	5	SP	O3	2	1	2	0	6
5.	ОТИ3Е ОТИ3ЗЖС	Elective Course 1 1. Ecology 2. Environmental Protection	5	SP	И	3	0	2	0	8
6.	ОИМ3ЕJ3	English Language 3	6	AE	O3	1	1	0	0	2
7.	ОТИ3ОХТ	General Chemical Technology	6	PA	O3	3	2	1	0	8
8.	ОТИ3ТО2	Technological Operations 2	6	SP	O3	3	2	1	0	8
9.	ОМИ2Е ОТИ3Т	Elective Course 2 1. Electrochemistry 2. Toxicology	6	SP	И	2	1	1	0	4
10.	ОТИ3ОИМ	Fundamentals of Intrumental Analysis	6	SP	O3	3	1	1	0	8
Total hours of active teaching in the year of study = 24 + 23 = 47										
FOURTH YEAR										
1.	ОТИ4НХТ	Inorganic Chemical Technology	7	PA	O3	3	1	2	0	8
2.	ОТИ4ПХТ	Design in chemical technology	7	PA	OM	3	1	2	0	8
3.	ОТИ4УХИ	Chemical Process Equipment	7	PA	OM	2	1	2	0	8
4.	ОТИ4ТНМ	The Technology of New materials	7	PA	OM	2	1	2	0	6
5.	ОТИ4КЗ	Corrosion and Protection	8	PA	O3	3	1	2	0	6
6.	ОТИ4ЕОП	Economics and organization of business	8	AE	O3	3	0	0	0	6
7.	ОТИ4ТВ ОТИ4КМ	Elective Course 3 1. Water technology 2. Corrosion of materials	8	PA	ИЗМ	3	1	2	0	6
8.	ОТИ4ТК ОТИ4ТС	Elective Course 4 1. Technology of Ceramics 2. Glass Technology	8	PA	ИЗМ	2	1	2	0	6
Total hours of active teaching in the year of study = 21 + 21 = 42										
Totals:						91	87	0	0	234
Total hours of active teaching in all years of study = 178										
1.	ОТИ4СП	Professional practice	8	PA	O3	0	0	0	4	3
2.	ОТИ4ЗР	Diploma thesis	8	PA	O3	0	0	0	4	3
Total ECTS										240

Legend of cours groups:

AE- Academically educational

TM- Theoretical methodological

Module: Engineering of environmental protection

No.	Code	Course Title	Semester	Type	Status of the course	Classes of active teaching			Other classes	ECTS
						Lectures	Exercises	Other form of teaching		
FIRST YEAR										
1.	ОИМ1М1	Mathematics 1	1	TM	ОЗ	3	3	0	0	8
2.	ОТИ1Ф	Physics	1	TM	ОЗ	3	1	2	0	8
3.	ОТИ1ОХ	General Chemistry	1	TM	ОЗ	3	1	2	0	8
4.	ОИМ1И1	Informatics 1	1	AE	ОЗ	2	0	0	0	4
5.	ОИМ1ЕJ1	English Language1	1	AE	ОЗ	1	1	0	0	2
6.	ОТИ1НХ	Inorganic Chemistry	2	TM	ОЗ	3	1	2	0	8
7.	ОИМ1И2	Informatics 2	2	AE	ОЗ	2	2	0	0	6
8.	ОТИ1ИГ	Engineering Graphics	2	AE	ОЗ	2	1	1	0	6
9.	ОТИ1М2	Mathematics 2	2	TM	ОЗ	3	3	0	0	8
10.	ОИМ1ЕJ1	English Language 1	2	AE	ОЗ	1	1	0	0	2
Total hours of active teaching in the year of study = 44										
SECOND YEAR										
1.	ОИМ2С	Statistics	3	TM	ОЗ	3	3	0	0	9
2.	ОТИ2ФХ	Physical Chemistry	3	SP	ОЗ	3	1	2	0	9
3.	ОРИ2МП	Mineralogy and Petrography	3	SP	ОЗ	3	3	0	0	8
4.	ОИМ2ЕJ2	English Language 2	3	AE	ОЗ	1	1	0	0	4
5.	ОТИ2АХ	Analytical Chemistry	4	SP	ОЗ	3	1	2	0	8
6.	ОТИ2Т	Thermodynamics	4	SP	ОЗ	3	3	0	0	6
7.	ОТИ2ОЕ	Fundamentals of Electrical Engineering	4	AE	ОЗ	3	2	0	0	8
8.	ОТИ2ОХ	Organic Chemistry	4	SP	ОЗ	3	1	2	0	6
9.	ОИМ2ЕJ2	English Language 2	4	AE	ОЗ	1	1	0	0	2
Total hours of active teaching in the year of study = 45										
THIRD YEAR										
1.	ОИМ3ЕJ3	English Language 3	5	AE	ОЗ	1	1	0	0	2
2.	ОТИ3ТОХТ	Theoretical Foundations of Chemical Technology	5	SP	ОЗ	3	3	0	0	6
3.	ОТИ3ТО1	Technological Operations 1	5	SP	ОЗ	3	2	1	0	8
4.	ОТИ3НХ2	Inorganic Chemistry 2	5	SP	ОЗ	2	1	2	0	6
5.	ОТИ3Е ОТИ3ЗЖС	Elective Course 1 3. Ecology 4. Environmental Protection	5	SP	И	3	0	2	0	8
6.	ОИМ3ЕJ3	English Language 3	6	AE	ОЗ	1	1	0	0	2
7.	ОТИ3ОХТ	General Chemical Technology	6	PA	ОЗ	3	2	1	0	8
8.	ОТИ3ТО2	Technological Operations 2	6	SP	ОЗ	3	2	1	0	8
9.	ОМИ2Е ОТИ3Т	Elective Course 2 3. Electrochemistry 4. Toxicology	6	SP	И	2	1	1	0	4
10.	ОТИ3ОИМ	Fundamentals of Instrumental Analysis	6	SP	ОЗ	3	1	1	0	8
Total hours of active teaching in the year of study = 47										
FOURTH YEAR										
1.	ОТИ4НХТ	Inorganic Chemical Technology	7	PA	ОЗ	3	1	2	0	8
2.	ОТИ4ЗЗЗ	Soil pollution and Protection	7	PA	ОМ	3	1	2	0	8
3.	ОТИ4ОВ	Wastewaters	7	PA	ОМ	2	1	2	0	6
4.	ОТИ4ЗЗВ	Pollution and air protection	7	PA	ОМ	2	1	2	0	8
5.	ОТИ4КЗ	Corrosion and Protection	8	PA	ОЗ	3	1	2	0	6
6.	ОТИ4ЕОП	Economics and organization of business	8	AE	ОЗ	3	0	0	0	6
7.	ОТИ4ТПОЧО ОТИ4ПОГ	Elective Course 3 1. Technology of solid waste treatment and disposal 2. Purification of waste gases	8	PA	ИЗМ	3	1	2	0	6
8.	ОТИ4ОЗМ ОМИ4МСС	Elective Course 4 1. Hazardous organic substances 2. Metallurgy of the secondary raw materials	8	PA	ИЗМ	2	1	2	0	6
Total hours of active teaching in all years of study = 42										
Totals:						91	87	0	0	234
Total hours of active teaching in all years of study = 178										
1.	ОТИ4СП	Professional practice	8	PA	ОЗ	0	0	0	4	3
2.	ОТИ4ЗР	Diploma thesis	8	PA	ОЗ	0	0	0	4	3
Total ECTS									240	

