

FACULTY OF CHEMICAL TECHNOLOGIES

Specialty : Textile and Leather Technological Design

Professional qualification : chemical engineer

code of discipline	COURSES	FULL-TIME STUDIES									Total credits	Total
		Semester	Course Loads					Total Self-training	Credits	Credits of self-training		
			Assessment	Teaching Loads								
				Lectures	Laboratory work	Seminars	Total					
1	2	3	4	5	6	7	8	9	10	11	12	13
b052	Mathematics –part I	I	E	45	0	45	90	135	3.6	5.4	9	225
b1001	Fundamentals of Design and CAD	I	T	15	30	0	45	68	1.6	2.4	4	113
b676	Informatics –part I	I	E	30	30	0	60	90	2.4	3.6	6	150
b111	Inorganic Chemistry –part I	I	E	30	9	21	60	90	2.4	3.6	6	150
b1198	Introduction to the Specialty	I	T	15	0	15	30	45	0.8	1.2	2	75
	Humanitarian elective courses – one of the following:											
b056	– Ecology and Technical Civilization	I	T	30	0	0	30	45	1.2	1.8	3	75
b066	– Engineering Psychology and Ergonomics	I	T	30	0	0	30	45	1.2	1.8	3	75
b1150	– Career Development and Entrepreneurship	I	T	30	0	0	30	45	1.2	1.8	3	75
b1000	Sports	I			60							
Total for the semester:							315	473			30	788
b053	Mathematics – part II	II	E	45	0	45	90	135	3.6	5.4	9	225
b344	Technical Mechanics	II	–	15	0	15	30	45	1.2	1.8	3	75
b824	Informatics –part II	II	E	15	30	0	45	68	1.6	2.4	4	113
b114	Inorganic Chemistry –part II	II	E	30	30	0	60	90	2.0	3.0	5	150
b414	Physics	II	E	45	45	0	90	135	3.6	5.4	9	225
b1000	Sports	II			60							
Total for the semester:							315	473			30	788
b344	Technical Mechanics	III	E	30	15	15	60	90	2.0	3.0	5	150
b115	Analytical Chemistry	III	E	30	30	0	60	90	2.0	3.0	5	150
b196	Economics and Management	III	E	25	0	25	50	75	2.0	3.0	5	125
b325	Industrial Safety	III	T	20	25	0	45	68	1.6	2.4	4	113
b236	Organic Chemistry –part I	III	E	45	45	0	90	135	3.6	5.4	9	225
	Electives – one of the languages:											
b148	– English	III	–	0	30	0	30	45	0.8	1.2	2	75
b153	– Russian	III	–	0	30	0	30	45	0.8	1.2	2	75
b155	– French	III	–	0	30	0	30	45	0.8	1.2	2	75
b168	– German	III	–	0	30	0	30	45	0.8	1.2	2	75
b1000	Sports	III			30							
Total for the semester:							335	503			30	838
b189	Instrumental Methods in Analytical Chemistry	IV	E	30	45	0	75	113	2.8	4.2	7	188
b311	Physical Chemistry-part I	IV	E	30	30	0	60	90	2.4	3.6	6	150
b396	Electrical Engineering and Electronics	IV	E	30	30	0	60	90	2.0	3.0	5	150
b237	Organic Chemistry- part II	IV	E	45	45	0	90	135	3.6	5.4	9	225
	Electives – one of the languages:											
b148	– English	IV	T	0	30	0	30	45	1.2	1.8	3	75
b153	– Russian	IV	T	0	30	0	30	45	1.2	1.8	3	75
b155	– French	IV	T	0	30	0	30	45	1.2	1.8	3	75
b168	– German	IV	T	0	30	0	30	45	1.2	1.8	3	75
b1000	Sports	IV			30							
Total for the semester:							315	473			30	788

	Humanitarian elective courses – one of the following:											
b138	– Communications in the Social Systems	V	T	30	0	0	30	45	1.2	1.8	3	75
b139	– Organizational Development and Training of Staff	V	T	30	0	0	30	45	1.2	1.8	3	75
b242	Unit Operations –part I	V	E	30	10	20	60	90	2.0	3.0	5	150
b029	Industrial Automation	V	E	30	30	0	60	90	2.0	3.0	5	150
b837	Statistical Methods	V	T	15	15	0	30	45	1.2	1.8	3	75
b312	Physical Chemistry –part II	V	E	30	30	0	60	90	2.0	3.0	5	150
b773	Polymers in Textile, Leather and Footwear Production	V	E	45	45	0	90	135	3.6	5.4	9	225
b1000	Sports	V			30							
Total for the semester:							330	495			30	825
b243	Unit Operations –part II and a project	VI	E	30	15	30	75	113	2.8	4.2	7	188
b399	Thermal Engineering	VI	E	20	20	0	40	60	1.2	1.8	3	100
b621	Fundamentals of Chemical and Metallurgical Technologies	VI	E	30	45	0	75	113	2.4	3.6	6	188
b1343	Modification Methods and Analysis of Polymers and Composites	VI	E	15	15	0	30	45	0.8	1.2	2	75
b1558	Fiber Production Technology	VI	E	45	45	0	90	135	3.2	4.8	8	225
	Elective courses - one of the following:											
b1337	– Spectral Methods in Organic Chemistry	VI	T	15	30	0	45	68	1.6	2.4	4	113
b1316	– Practical Aspects of Chemical Analysis	VI	T	15	30	0	45	68	1.6	2.4	4	113
b1318	– Computer Simulations of Drugs and Bioactive Substances	VI	T	15	30	0	45	68	1.6	2.4	4	113
b1250	– Applied Software for Data Processing	VI	T	15	30	0	45	68	1.6	2.4	4	113
b1000	Sports	VI			30							
Total for the semester:							355	533			30	888
b774	Materials Science in Textile, Leather and Footwear Production	VII	E	30	30	0	60	90	1.6	2.4	4	150
b775	Dyes and Auxiliary Materials in Textile and Leather Manufacturing	VII	E	30	30	0	60	90	2.0	3.0	5	150
b695	Textile Chemistry –part I	VII	E	40	40	0	80	120	2.8	4.2	7	200
b564	Leather Technology	VII	E	40	40	0	80	120	2.8	4.2	7	200
b1025	Technological Design of Textile and Leather	VII	E	30	30	0	60	90	2.0	3.0	5	150
	Project – one of the following:											
b266	- Engineering Design of Footwear Chemical Technologies	VII	–	0	0	20	20	30	0.8	1.2	2	50
b1344	- Engineering Design of Textile Chemical Technologies	VII	–	0	0	20	20	30	0.8	1.2	2	50
Total for the semester:							360	540			30	900
b696	Textile Chemistry –part II	VIII	E	40	40	0	80	120	2.4	3.6	6	200
b215	Technology of Leather Products	VIII	E	40	40	0	80	120	2.4	3.6	6	200
b1023	Biotechnologies Application to Textile, Leather and Fur Production	VIII	E	30	30	0	60	90	2.0	3.0	5	150
b1195	Ecological Aspects of Textile, Leather and Fur Production	VIII	E	20	20	0	40	60	0.8	1.2	2	100
	Project – one of the following:											
b266	- Design of Footwear Chemical Technologies	VIII	D	0	0	10	10	15	0.4	0.6	1	25
b1344	- Design of Textile Chemical Technologies	VIII	D	0	0	10	10	15	0.4	0.6	1	25
Total for the semester:							270	405			20	675
b1022	Practice in Industry		D				200					
	BSc Thesis – 8 weeks	VIII	D								10	
Total number for the entire period of education:							2595				240	