

Bachelor Program: Oil and Gas production**Study Program: Exploitation and service of technological objects of oil and gas production****Duration: 2 years of study****Language of Training: Russian**

№	Subject	Semester	Hours	Credits
	Basic part			
B.1.1.1	History	1	108	3
B.1.1.2	Philosophy	4	108	3
B.1.1.3	Foreign language	1-3	288	8
B.1.1.4	Economy	2	108	3
B.1.1.5	Mathematics	1-4	540	15
B.1.1.6	Physics	2-4	360	10
B.1.1.7	Chemistry	1	180	5
B.1.1.8	Ecology	4	72	2
B.1.1.9	Computer science	1, 2	216	6
B.1.1.10	Theoretical mechanics	2, 3	216	6
B.1.1.11	Descriptive geometry	1	180	5
B.1.1.12	Engineering and computer graphics	2-4	324	9
B.1.1.13	Strength of materials	3, 4	252	7
B.1.1.14	Design basics	4	144	4
B.1.1.15	Oil and gas chemistry	5	108	3
B.1.1.16	Materials science	4	108	3
B.1.1.17	Corrosion and corrosion protection of oil and gas equipment	6	108	3
B.1.1.18	Electrical engineering and electronics	6	180	5
B.1.1.19	Metrology, standardization and certification	5	108	3
B.1.1.20	History of science and technology	2	72	2
B.1.1.21	Life safety	7	108	3
B.1.1.22	Physical culture	1	72	2
	Variable part			
B.1.2.1	Basics of project working	3	108	3
B.1.2.2	Law science	6	108	3
B.1.2.3	Business communication in a foreign language	4	72	2
B.1.2.4	Professional-oriented communication in a foreign language	5	72	2
B.1.2.5	Fluid and gas mechanics	5	144	4
B.1.2.6	Physico-chemical properties of substances	5	108	3
B.1.2.7	Hydraulics and oil and gas hydromechanics	6	144	4
B.1.2.8	Durability of oil and gas equipment	8	108	3
B.1.2.9	Theory of mechanisms and machines	3	144	4
B.1.2.10	Technology of construction materials	5	108	3
B.1.2.11	Heat engineering	6	180	5
B.1.2.12	Basics of automation of technological processes of oil and gas production	7	108	3
B.1.2.13	Processes and apparatus of oil and gas production	7	216	6
B.1.2.14	Equipment of chemical and oil production	7, 8	360	10
B.1.2.15	Calculation and design of machines and apparatus	7	144	4
B.1.2.16	Pipeline systems	5	108	3
B.1.2.17	Physical bases of oil and gas registration for technological operations	5	72	2

B.1.2.18	Special problems of oil and gas production	5	108	3
B.1.2.19	Economics of enterprise	6	72	2
	Elective courses			
B.1.3.1.1	Psychology	1	108	3
B.1.3.1.2	Engineering psychology	/1	/108	/3
B.1.3.2.1	Russian language and speech culture	2	72	2
B.1.3.2.2	Russian for business and professional communication	2	72	2
B.1.3.3.1	Evaluation of the project's economic efficiency	8	72	2
B.1.3.3.2	Feasibility study of the project	8	72	2
B.1.3.4.1	Applied computer programs	5	72	2
B.1.3.4.2	Database management systems	5	72	2
B.1.3.5.1	Basics of computer-aided design	7	108	3
B.1.3.5.2	CAD systems	7	108	3
B.1.3.6.1	Resource-saving technologies for oil and gas production	6	144	4
B.1.3.6.2	Basics of energy and resource saving	6	144	4
B.1.3.7.1	Mathematical modeling and optimization of heat and mass transfer processes and apparatus	7	144	4
B.1.3.7.2	Methods and means of energy and resource saving	7	144	4
B.1.3.8.1	Basics of oil and gas production	3	144	4
B.1.3.8.2	Basics of engineering creativity	3	144	4
B.1.3.9.1	Repair and installation of equipment	8	144	4
B.1.3.9.2	Durability of machines and apparatus	8	144	4
B.1.3.10.1	Team sports	2-6	/328	0
B.1.3.10.2	Sports and recreation activities	/2-6	/328	0
	Practice (the variable part)			
B.2.1	Training practice	2	108	3
B.2.2	1st Production practice	4	216	6
B.2.3	2nd Production practice	6	216	6
B.2.4	Production practice (research work)	8	324	9
B.3	The state final examination (the basic part)		324	9
	Total		8968	240