

# Dnipro University of Technology

## SCHEDULE OF EDUCATIONAL PROCESS

### APPROVED

The decision of the Academic Council  
NTU "DP"

according to CBDP №11 22/06/17

**Field of study** - 18 Manufacturing and Technology  
**Specialty** - 185 Oil Engineering and Technology  
**Specialization** - Construction of oil and gas wells  
**The level of higher education** - 1st  
**Degree** - bachelor  
**The graduating department** - Technology and Techniques of Mineral Prospecting (TRRKK)

**Faculty (Institute)** - MIBO  
**Form of study** - Full-time (day)  
**Training period** - 3 years 10 months  
**Professional qualifications** -;

### I. SCHEDULE educational process for bachelors for international students in separate academic groups 2017-2021 academic years

Semester	1														2																																					
Term	I				II										III				IV																																	
Month	September				October				November				December				January				February				March				April				May				June				July				August							
Week	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52
The numbers in the	4	11	18	25	2	9	16	23	30	6	13	20	27	4	11	18	25	1	8	15	22	29	5	12	19	26	5	12	19	26	2	9	16	23	30	7	14	21	28	4	11	18	25	2	9	16	23	30	6	13	20	27
	10	17	24	1	8	15	22	29	5	12	19	26	3	10	17	24	31	7	14	21	28	4	11	18	25	4	11	18	25	1	8	15	22	29	6	13	20	27	3	10	17	24	1	8	15	22	29	5	12	19	26	2
Year of rec	1	T	T	T	T	T	T	CA	T	T	T	T	T	T	CA	E	E	H	H	H	H	H	IW	T	T	T	T	T	T	CA	T	T	T	T	T	T	T	CA	E	E	PT	PT	PT	PT	H	H	H	H	H	H	H	
2	T	T	T	T	T	T	CA	T	T	T	T	T	T	CA	E	E	H	H	H	H	H	IW	T	T	T	T	T	T	CA	T	T	T	T	T	T	T	CA	E	E	PT	PT	PT	PT	H	H	H	H	H	H	H		
3	T	T	T	T	T	T	CA	T	T	T	T	T	T	CA	E	E	H	H	H	H	H	IW	T	T	T	T	T	T	CA	T	T	T	T	T	T	T	CA	E	E	PT	PT	PT	PT	H	H	H	H	H	H	H		
4	T	T	T	T	T	T	CA	T	T	T	T	T	T	CA	E	E	H	IW	IW	IW	IW	IW	T	T	T	T	T	T	CA	E	E	PD	PD	D	D	D	D	D	D	A	A											

### II. BUDGET time (weeks)

*The curriculum implementation workload for Bachelors 7200 hours. 240 cred. ECTS*

Bachelor of activity	course of the v			
	1	2	3	4
T - theoretical training	27	27	27	20
CA- control activities	4	4	4	3
E- Exams	4	4	4	4
IW - individual work under the g	1	1	1	5
PT - Practical training Bachelor	4	4	4	
PD - pre-diploma practice				2
D - Diploma Advising				6
A - Protection degree projects (works)				2
QE - qualifying exam				
H - Hoidays	12	12	12	1
<b>Total</b>	40	40	40	40
	52	52	52	43

#### Distribution of theoretical training in terms by the number of weeks

Course	I term	II term	III term	IV term
1	6	7	7	7
2	6	7	7	7
3	6	7	7	7
4	6	7	7	

### APPROVED

Director MIBO  
NTU "DP"

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O.A. Pashchenko  
" " " 2017

Head of the Dep. TRRKK

O.M. Davydenko

\_\_\_\_\_  
" " " 2017

**CURRICULUM FOR BACHELOR'S DEGREE PROGRAMME IN THE FIELD OF STUDY 18 Production and Technology  
SPECIALTY 185 Oil and Gas Engineering and Technology**

according to CDBP №11 22/06/17

Institute: MIBO

**2017-2018 academic year      1st year (bachelor)**

№	Curriculum element	Department	Workload (time for learning)		Final assess- ment, term		Classes, hours					Independen t work		Hours per week											
			hours		credits		exams	tests	total	Type of classes				total, hours	share in academic y	semester 1					semester 2				
			total	annual	total	annual				total	lectures	practical/seminar	laboratory class			control activities	term 1, weeks		term 2, weeks			term 3, weeks		term 4, weeks	

**1 NORMATIVE PART**

**1.1 General educational module**

1	Ukrainian for foreign students	History and political theory	360	360	12	12	4		62	54			54	8	298	0.828			2	2			2	2			2	2			2	2
2	History of Ukraine	History and political theory	90	90	3	3		1	21	18	12		6	3	69	0.767	2		1	3											2	2
Subtotal:			450	15	15			83	72	12	0	60	11	367																		

**1.2 Professional module**

**1.2.1 General professional disciplines**

1	Informatics, Algorithmization and Programming	Software of computer systems	90	90	3	3		3	48	42	14		28	6	42	0.467					1		2	3	1		2	3				
2	Engineering graphics	Design, technical aesthetics and design	90	90	3	3	3		48	42	14	28		6	42	0.467					1	2		3	1	2		3				
3	Geology	General and structural geology	60	60	2	2	2		24	21	14	7		3	36	0.6					2	1		3								
4	Geology	Hydrogeology and Engineering Geology	60	60	2	2	3		24	21	14		7	3	36	0.6									2		1	3				
5	Mathematics 1	Higher Mathematics	150	150	5	5	2		60	52	26		26	8	90	0.6	2		2	4	2		2	4								
6	Physics1	Physicists	150	150	5	5	4		64	56	28	28		8	86	0.573								2	2		4	2	2		4	
7	Chemistry	Chemistry	150	150	5	5	3		64	56	28	28		8	86	0.573					2	2		4	2	2		4				
Subtotal:			750	25	25			332	290	138	91	61	42	418																		

**1.2.2 Professional disciplines**

1	Geodesy	Geodesy	90	90	3	3		4	32	28	14	14		4	58	0.644														2	2	4	
2	Oil and Gas Deposit Geology	Geology and exploration of mineral deposits	90	90	3	3		4	24	21	14		7	3	66	0.733														2		1	3
3	Introduction to Specialty	Technology and Techniques of Mineral Prospecting	90	90	3	3		3	32	28	28			4	58	0.644				2			2	2			2						
4	Basics of Oil and Gas Engineering	Transportation systems and technologies	150	150	5	5		4	48	42	28		14	6	102	0.68								2		1	3	2		1	3		
Subtotal:			420	14	14			136	119	84	14	21	17	284																			

**1.3 Practical training module**

1	Educational practical training (geological)	Geology and exploration of mineral deposits	90	90	3	3		4							90	1																
2	Educational practical training (geodetic)	Surveying	90	90	3	3		4							90	1																
Subtotal:			180	6	6			0	0	0	0	0	0	180																		
<b>Total:</b>			<b>1800</b>	<b>60</b>				<b>551</b>	<b>481</b>	<b>234</b>	<b>105</b>	<b>142</b>	<b>70</b>	<b>1249</b>																		

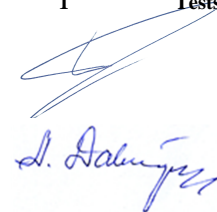
		Hours per week									
		9		21			24			16	
<b>Exams</b>				2			Exams			5	
<b>Tests</b>				1			Tests			5	

Director of MIBO

O.A.Pashchenko

Head of TRRKK Department

O.M. Davydenko

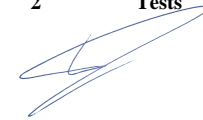




№	Curriculum element	Department	Workload (time for learning)		Final assess- ment, term		Classes, hours					Independent work		Hours per week															
			hours		credits		total	total	lectures	practical/seminars	laboratory class	control activities	total, hours	share in academic y	semester 3				semester 4										
			total		annual										term 1, weeks		term 2, weeks		term 3, weeks		term 4, weeks								
															6	1	7	1	7	1	7	1							
			total	annual	total	annual	exams	tests	total	total	lectures	practical/seminars	laboratory class	control activities	total, hours	share in academic y	lectures	practical/seminars	laboratory classes	control activities	lectures	practical/seminars	laboratory classes	control activities	lectures	practical/seminars	laboratory classes	control activities	
			<b>Total:</b>	1800	60				578	503	322	0	181	75	1222		22	19	22	12									
																	<b>Exams</b>	<b>3</b>	<b>Exams</b>	<b>5</b>									
																	<b>Tests</b>	<b>2</b>	<b>Tests</b>	<b>4</b>									

Director of MIBO

O.A.Pashchenko



Head of TRRKK Department

O.M. Davydenko



**CURRICULUM FOR BACHELOR'S DEGREE PROGRAMME IN THE FIELD OF STUDY 18 Production and Technology  
SPECIALTY 185 Oil and Gas Engineering and Technology**

according to CBDP №11 22/06/17

**Institute: MIBO**

**2019-2020 academic year 3rd year (bachelor)**

№	Curriculum element	Department	Workload (time for learning)		Final assess- ment, term		Classes, hours					Independent work		Hours per week														
			hours		credits		total	Type of classes				total, hours	share in academic y	semester 3						semester 4								
			total	annual	total	annual		exams	tests	total	lectures			practical/seminar	laboratory class	control activities	term 1, weeks			term 2, weeks			term 3, weeks			term 4, weeks		
																	6	1	7	1	7	1	7	1				
lectures	practical/seminars	laboratory classes	control activities	lectures	practical/seminars	laboratory classes	control activities	lectures	practical/seminars	laboratory classes	control activities	lectures	practical/seminars	laboratory classes	control activities													

**1 NORMATIVE PART**

**1.2.2 Professional disciplines**

1	Marine oil and gas technologies	Technology and Techniques of Mineral Prospecting	105	105	3.5	3.5	12	48	42	28	14	6	57	0.543									2		1	3	2		1	3	
2	Well Drilling (Oil & Gas)	Technology and Techniques of Mineral Prospecting	135	135	4.5	4.5	10	45	39	26	13	6	90	0.667	2		1	3	2		1	3									
3	Course project on oil and gas drilling	Technology and Techniques of Mineral Prospecting	15	15	0.5	0.5	12					0	15	1																	
4	Metrology, standardization, certification and accreditation	Metrology and information technology	90	90	3	3	10	45	39	26	13	6	45	0.5	2		1	3	2		1	3									
5	Fundamentals of transportation and storage of hydrocarbons	Transportation systems and technologies	150	150	5	5	10	60	52	26	26	8	90	0.6	2		2	4	2		2	4									
6	Oil and gas equipment	Technology and Techniques of Mineral Prospecting	105	105	3.5	3.5	12	48	42	28	14	6	57	0.543									2		1	3	2		1	3	
7	Construction and protection of gas pipelines	Transportation systems and technologies	60	60	2	2	9	28	24	12	12	4	32	0.533	2		2	4													
8	Construction and protection of gas pipelines	Electric drives	60	60	2	2	10	32	28	14	14	4	28	0.467					2		2	4									
9	Oil and gas extraction technologies	Transportation systems and technologies	120	120	4	4	12	48	42	28	14	6	72	0.6									2		1	3	2		1	3	
Subtotal:			840	28	28		354	308	188	0	120	46	486																		

**1.3 Practical training module**

1	First Industrial Practical Training	Technology and Techniques of Mineral Prospecting	180	180	6	6	12							180	1																	
Subtotal:			180	6	6		0	0	0	0	0	0	180																			

**2. SELECTIVE PART**

**Option 1**

1	Drilling of technical wells	Technology and Techniques of Mineral Prospecting	120	120	4	4	10	45	39	26	13	6	75	0.625	2		1	3	2		1	3									
2	Computerization of technological calculations in drilling	Technology and Techniques of Mineral Prospecting	90	90	3	3	12	32	28	28		4	58	0.644										2		2		2		2	
3	Drilling washer fluid	Technology and Techniques of Mineral Prospecting	120	120	4	4	12	48	42	28	14	6	72	0.6									2		1	3	2		1	3	
4	Hydromechanics in drilling	Technology and Techniques of Mineral Prospecting	180	180	6	6	12	64	56	28	28	8	116	0.644									2		2	4	2		2	4	
5	Drilling of engineering-geological wells	Technology and Techniques of Mineral Prospecting	90	90	3	3	10	30	26	13	13	4	60	0.667	1		1	2	1		1	2									
Subtotal:			600	20	20		219	191	95	28	68	28	381																		

Hours per week

**Option 2**

1	Assessment of gas content of methane-coal deposits	Transportation Systems and Technologies	120	120	4	4	10	45	39	26	13	6	75	0.625	2		1	3	2		1	3									
2	Technologies for the development of coal fields	Aerology and Occupational Health	90	90	3	3	11	24	21	14	7	3	66	0.733									2		1	3					



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**SPECIALTY 185 Oil and Gas Engineering and Technology**

according to CBDP №11 22/06/17

Institute: MIBO

2020-2021 academic year      4th year (bachelor)

№	Curriculum element	Department	Workload (time for learning)				Final assessment, term		Classes, hours					Independent work		Hours per week																
			hours		credits											Semester 7			Semester 8													
			total	annual	total	annual	exams	tests	total	Type of classes				total, hours	share in academic year	term 1, weeks			term 2, weeks			term 3, weeks										
										total	lectures	practical/seminar	laboratory classes			control activities	6	1	7	1	7	1										

**1 NORMATIVE PART**

**1.1 General educational module**

1	Civil Security	Occupational health and safety	120	120	4	4		13	21	18	12		6	3	99	0.825	2		1	3												
Subtotal:			120	120	4	4		13	21	18	12	0	6	3	99																	

**1.2.2 Professional disciplines**

1	Automation of technological processes in the oil and gas industry	Technology and Techniques of Mineral Prospecting	120	120	4	4		15	24	21	14		7	3	96	0.8												2	1	3	
2	Labor protection in the oil and gas industry	Aerology and Occupational Safety	90	90	3	3	15		24	21	14		7	3	66	0.733												2	1	3	
3	Environmental technologies in the industry	Ecology and Environmental Technology	120	120	4	4	14		45	39	26		13	6	75	0.625	2		1	3	2		1	3							
4	Economics and production management	Applied Economics	120	120	4	4		14	45	39	26		13	6	75	0.625	2		1	3	2		1	3							
Subtotal:			450	450	15	15		45	138	120	80	0	40	18	312																

**1.3 Practical training module**

1	Pre-Diploma Practical Training	Technology and Techniques of Mineral Prospecting	90	90	3	3		16							90	1															
2	Diploma Advising	Technology and Techniques of Mineral Prospecting	120	120	4	4		16							120	1															
3	Diploma Advising	Transportation systems and technologies	120	120	4	4		16							120	1															
4	Diploma Advising	Occupational health and safety	30	30	1	1		16							30	1															
Subtotal:			360	360	12	12		64	0	0	0	0	0	0	360																

**2. SELECTIVE PART**

**Option 1**

1	Well completion	Technology and Techniques of Mineral Prospecting	90	90	3	3		14	40	35	21		14	5	50	0.556						3		2	5						
2	Drilling equipment operation	Technology and Techniques of Mineral Prospecting	120	120	4	4	14		60	52	26		26	8	60	0.5	2		2	4	2		2	4							
3	Drilling of inclined-oriented wells	Technology and Techniques of Mineral Prospecting	120	120	4	4	15		32	28	14		14	4	88	0.733										2	2	4			
4	Deep drilling technology	Technology and Techniques of Mineral Prospecting	120	120	4	4		15	24	21	14		7	3	96	0.8										2	1	3			
5	Drilling mud mixes	Technology and Techniques of Mineral Prospecting	120	120	4	4	15		32	28	14		14	4	88	0.733											2	2	4		

№	Curriculum element	Department	Workload (time for learning)				Final assessment, term		Classes, hours					Independent work		Hours per week												
			hours		credits		exams	tests	total	Type of classes				total, hours	share in academic year	Semester 7				Semester 8								
			total	annual	total	annual				total	lectures	practical/seminar	laboratory classes			control activities	term 1, weeks		term 2, weeks		term 3, weeks							
																	6	1	7	1	7	1						
														lectures	practical/seminars	laboratory classes	control activities	lectures	practical/seminars	laboratory classes	control activities	lectures	practical/seminars	laboratory classes	control activities			
6	Fundamentals of the patent case	Technology and Techniques of Mineral Prospecting	120	120	4	4		14	45	39	26		13	6	75	0.625	2		1	3	2		1	3				
Subtotal:			690	23	23			233	203	115	0	88	30	457														

Option 2

1	Engineering Logistics	Transportation systems and technologies	120	120	4	4	14		60	52	26		26	8	60	0.5	2		2	4	2		2	4				
2	Technologies for the production of unconventional hydrocarbons	Transportation systems and technologies	120	120	4	4		14	45	39	26		13	6	75	0.625	2		1	3	2		1	3				
3	Transportation systems of mining enterprises	Transportation systems and technologies	120	120	4	4		15	24	21	14		7	3	96	0.8									2	1	3	
4	Operation of gas-oil supply systems	Transportation systems and technologies	120	120	4	4		15	24	21	14		7	3	96	0.8									2	1	3	
5	Automobile gas filling compressor stations	Transportation systems and technologies	90	90	3	3		15	24	21	14		7	3	66	0.733									2	1	3	
6	The processes of underground storage of hydrocarbons	Transportation systems and technologies	120	120	4	4		15	24	21	14		7	3	96	0.8									2	1	3	
Subtotal:			690	23	23			201	175	108	0	67	26	489														

2.3 Disciplines chosen by the student

1	Free choice discipline # 3		90	90	3	3		14	24	21	14		7	3	66	0.733							2		1	3			
2	Free choice discipline # 4		90	90	3	3		15	24	21	14		7	3	66	0.733										2	1	3	
Subtotal:			180	6	6			48	42	28	0	14	6	132															

**Total: 1800 60 440 383 235 0 148 57 1360**

Hours per week											
16				21				20			
<b>Exams</b>				<b>3</b>				<b>Exams</b>			
<b>Tests</b>				<b>5</b>				<b>Tests</b>			

Director of MIBO

Head of TRRKK Department


O.A. Pashchenko

O.M. Davydenko