

Dnipro University of Technology

SCHEDULE OF EDUCATIONAL PROCESS

APPROVED

The decision of the Academic Council
NTU "DP"

according to local CDBP №9 05/07/18

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 2018-2022 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 2018/19 academic year	3	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				
Year of education	1	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	CA	E	E	PT	PT	PT	PT	H	H	H	H	H	H	H	H	H	H	H	H		
	2	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	CA	E	E	PT	PT	PT	PT	H	H	H	H	H	H	H	H	H	H	H	H	H	H
	3	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	CA	E	E	PT	PT	PT	PT	H	H	H	H	H	H	H	H	H	H	H	H	H	H
	4	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
Total	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"

O.A. Pashchenko
" " " 2018

Head of the Dep. TRRKK
O.M. Davydenko

" " " 2018

**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 №9 05/07/18

Institute: MIBO

2018-2019 academic year 1st year (bachelor)

№	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 volume	semester 1				semester 2					
			total	annual	total	annual				total	lectures	practical/seminars	laboratory classes				control activities	term 1, weeks	term 2, weeks	term 3, weeks	term 4, weeks					
			6	1	7	1	7	1	7	1	7	1	7		1											

1 NORMATIVE PART

1.1 General educational module

1	Ukrainian for foreign students	Philology and language communication	450	360	15	12	4		62	54			54	8	298	0.828			2	2			2	2			2	2			2	2
2	Civilization processes in Ukrainian society	History and political theory	90	90	3	3		1	21	18	12		6	3	69	0.767	2		1	3												
Subtotal:			450	18	15			83	72	12	0	60	11	367																		

1.2 Professional module

1.2.1 General professional disciplines

1	Engineering graphics	Design, technical aesthetics and design	90	90	3	3	2		48	42	14	28		6	42	0.467						1	2		3	1	2		3			
2	Geology	General and structural geology	60	60	2	2	1		24	21	14	7		3	36	0.6						2	1		3							
3	Geology	Hydrogeology and Engineering Geology	60	60	2	2	2		24	21	14		7	3	36	0.6									2		1	3				
4	Mathematics I	Higher Mathematics	150	150	5	5	2		60	52	26		26	8	90	0.6	2		2	4	2		2	4								
5	Physics I	Physicists	150	150	5	5	4		64	56	28	28		8	86	0.573									2	2		4	2	2		4
6	Chemistry	Chemistry	150	150	5	5	2		64	56	28	28		8	86	0.573						2	2		4	2	2		4			
7	Informatics, Algorithmization and Programming	Software of computer systems	90	90	3	3		2	48	42	14		28	6	42	0.467						1		2	3	1		2	3			
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	Introduction to Specialty	Technology and Techniques of Mineral Prospecting	90	90	3	3		2	32	28	28			4	58	0.644					2			2	2			2					
3	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		
4	Oil and Gas Deposit Geology	Geology and exploration of mineral deposits	90	90	3	3		3	24	21	14		7	3	66	0.733													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)	Geodesy	90	90	3	3		4							90	1																	
Subtotal:			180	6	6			0	0	0	0	0	0	180																			
Total:			1800	60				551	481	234	105	142	70	1249																			

Hours per week			
9	21	24	16
Exams	3	Exams	2
Tests	6	Tests	6

Director of MIBO

O.A.Pashchenko

Head of TRKK 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 №9 05/07/18

Institute: MIBO

2019-2020 academic year 2nd year (bachelor)

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

1 NORMATIVE PART																																									
1	Ukrainian for foreign students	Philology and language communication	450	90	15	3		5;6	30	26			26	4	60	0.67			2	2																					
2	Valuable professional competence	Philosophy and pedagogy	180	180	6	6	6		45	39	26		13	6	135	0.75	2		1	3	2		1	3																	
Subtotal:				270	21	9			75	65	26	0	39	10	195																										

1.2.2 Professional disciplines

1	Well drilling	Technology and Techniques of Mineral Prospecting	90	90	3	3		5	28	24	12		12	4	62	0.69	2		2	4																						
2	Technical Mechanics and Strength of Materials	Construction, theoretical and applied mechanics	150	150	5	5	6		60	52	26		26	8	90	0.6	2		2	4	2		2	4																		
3	Hydraulics	Mining mechanics	120	120	4	4		8	48	42	28		14	6	72	0.6							2																			
4	Thermodynamics and Heat Transfer	Mining mechanics	120	120	4	4	6		45	39	26		13	6	75	0.63	2		1	3	2		1	3																		
5	Details of machines and mechanisms	Design, technical aesthetics and design	120	120	4	4	8		48	42	28		14	6	72	0.6							2		1	3	2															
6	Electrical Engineering and Power Supply	Power supply systems	120	120	4	4		6	45	39	26		13	6	75	0.63	2		1	3	2		1	3																		
7	Oil and Gas Mechanics	Technology and Techniques of Mineral Prospecting	90	90	3	3	7		24	21	14		7	3	66	0.73								2		1	3															
8	Oil and gas equipment	Technology and Techniques of Mineral Prospecting	120	120	4	4		6	45	39	26		13	6	75	0.63	2		1	3	2		1	3																		
9	Rock mechanics	Technology and Techniques of Mineral Prospecting	90	90	3	3		6	40	35	21		14	5	50	0.56									3		2	5														
10	Technoecology	Ecology and environmental technologies	120	120	4	4	8		48	42	28		14	6	72	0.6											2															
11	Transport Systems and Technologies	Technology and Techniques of Mineral Prospecting	120	120	4	4		8	48	42	28		14	6	72	0.6											2															
12	Material Science	Mining engineering and education	90	90	3	3		7	32	28	14		14	4	58	0.64											2															
Subtotal:				1350	45	45			511	445	277	0	168	66	839																											



1.3 Practical training module

1	Educational introductory practical training	Technology and Techniques of Mineral Prospecting	180	180	6	6		8							180	1																											
Subtotal:				180	6	6			0	0	0	0	0	0	180																												
Total:				1800	60			586	510	303	0	207	76	1214																													

Hours per week			
22		23	
Exams		3	
Tests		5	
Exams		3	
Tests		5	

Director of MIBO

Head of TRRKK Department

O.A.Pashchenko

O.M. Davydenko

№	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 volume	semester 3				semester 4						
			total	annual	total	annual				total	lectures	practical/seminars	laboratory classes				control activities	term 1, weeks		term 2, weeks		term 3, weeks		term 4, weeks			
																		6	1	7	1	7	1	7	1		

Academic unit 2

1	Industrial transport	Transportation systems and technologies	90	90	3	3		10	45	39	26		13	6	45	0.5	2		1	3	2		1	3								
2	Technologies for the development of coal fields	Transportation systems and technologies	150	150	5	5		12	48	42	28		14	6	102	0.68									2		1	3	2		1	3
3	Technical creativity	Transportation systems and technologies	90	90	3	3		10	32	28	14		14	4	58	0.64					2		2	4								
4	Occupational hygiene and industrial sanitation	Occupational health and safety	120	120	4	4	10		45	39	26		13	6	75	0.63	2		1	3	2		1	3								
5	Metrology, standardization, certification and accreditation	Metrology and information and measurement technologies	90	90	3	3		10	45	39	26		13	6	45	0.5	2		1	3	2		1	3								
6	City gas supply systems	Transportation systems and technologies	120	120	4	4		12	48	42	28		14	6	72	0.6									2		1	3	2		1	3
7	Pipeline transportation	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
8	Assessment of gas content of methane-coal deposits	Technology and Techniques of Mineral Prospecting	120	120	4	4	10		45	39	26		13	6	75	0.63	2		1	3	2		1	3								
9	Modeling of technological processes	Technology and Techniques of Mineral Prospecting	120	120	4	4		12	32	28		28		4	88	0.73										2		2		2		2
Subtotal:				1020	34	34			388	338	202	28	108	50	632																	

Subtotal:

1020 34 34

388 338 202 28 108 50 632

Hours per week

Total: 1800 60

612 533 316 42 175 79 1188

Hours per week			
20	23	21	15
Exams	3	Exams	3
Tests	4	Tests	5

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**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 №9 05/07/18

Institute: MIBO

2021-2022 academic year 4th year (bachelor)

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

1 NORMATIVE PART

1.1 General educational module

1	Civil Security	Occupational health and safety	90	90	3	3	13		21	18	12		6	3	69	0.767	2		1	3															
Subtotal:				90	3	3		21	18	12	0	6	3	69																					

1.2 Professional disciplines

1	Offshore Oil and Gas Technologies	Technology and Techniques of Mineral Prospecting	150	150	5	5		15	32	28	14		14	4	118	0.787															2		2	4	
2	Economics and Production Management	Applied Economics, Entrepreneurship and Public Management	120	120	4	4		14	45	39	26		13	6	75	0.625	2		1	3	2		1	3											
3	Oil and Gas Extraction Technologies	Transportation systems and technologies	90	90	3	3	13		28	24	12		12	4	62	0.689	2		2	4															
4	Labour Safety in Oil and Gas Industry	Occupational health and safety	120	120	4	4	15		32	28	14		14	4	88	0.733													2		2		4		
5	Oil and Gas Extraction Technologies	Technology and Techniques of Mineral Prospecting	90	90	3	3	14		32	28	14		14	4	58	0.644						2		2	4										
Subtotal:				570	19	19		169	147	80	0	67	22	401																					

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	12	12		0	0	0	0	0	0	360																							

2 ELECTIVE PART

Academic unit 1

1	Drilling of inclined-directional wells	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												
2	Operation of drilling equipment	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	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								
4	Drilling Mud Mixes	Technology and Techniques of Mineral Prospecting	120	120	4	4		15	24	21	14		7	3	96	0.8									2		1	3								

№	Curriculum element	Department	Workload (time for learning)		Final assess- ment, term		Classes, hours					Independent work		Hours per week																
			hours		credits		exams	tests	total	Type of classes				total, hours	share in academic year volume	Semester 7				Semester 8										
			total	annual	total	annual				lectures	practical/seminars	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	lectures	practical/seminars	laboratory classes	control activities															
5	Completion of Boreholes	Technology and Techniques of Mineral Prospecting	90	90	3	3		15	24	21	14		7	3	66	0.733											2		1	3
6	Environmental technologies in the industry	Ecology and environmental technologies	120	120	4	4	14		45	39	26		13	6	75	0.625	2		1	3	2		1	3						
7	Drilling of technical wells	Technology and Techniques of Mineral Prospecting	90	90	3	3		14	45	39	26		13	6	45	0.5	2		1	3	2		1	3						
Subtotal:			780	26	26			267	232	146	0	86	35	513																

Academic unit 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	Operation of gas-oil supply systems	Transportation systems and technologies	120	120	4	4		14	45	39	26		13	6	75	0.625	2		1	3	2		1	3						
3	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	
4	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	
5	Fundamentals of transportation systems diagnostics	Transportation systems and technologies	120	120	4	4	14		45	39	26		13	6	75	0.625	2		1	3	2		1	3						
6	Oil and gas storage facilities	Transportation systems and technologies	120	120	4	4	15		24	21	14		7	3	96	0.8										2		1	3	
7	Transportation systems of mining enterprises	Transportation systems and technologies	90	90	3	3		14	45	39	26		13	6	45	0.5	2		1	3	2		1	3						
Subtotal:			780	26	26			267	232	146	0	86	35	513																

Total: 1800 60 457 397 238 0 159 60 1343

Hours per week					
23		20		17	
Exams		3		Exams	2
Tests		4		Tests	4

Director of MIBO

O.A.Pashchenko

Head of TRRKK Department

O.M. Davydenko