



MSc Petroleum Engineering							
sem.	course code	course	Institute	ECTS	lect.	pract.	assign
1	GEMAK712MA	Numerical methods and optimization	Department of Applied Mathematics	2	1	1	P
1	MFFT710003	Applied geology	Institute of Mineralogy and Geology	3	2	1	E
1	MFKOT720021	Computer applications II.	Institute of Petroleum and Natural Gas Engineering	3	0	3	P
1	MFGFT7100051	Applied geophysics	Department of Geophysics	3	2	1	E
1	MFKOT720011	Oilfield chemistry	Institute of Petroleum and Natural Gas Engineering	3	2	1	E
1	MFKGT740011	Geothermal energy	Institute of Petroleum and Natural Gas Engineering	3	2	0	P
1	MFKOT720012	Petroleum economics	Institute of Petroleum and Natural Gas Engineering	2	2	0	E
1	MFKOT71011	HSE in petroleum engineering	Institute of Petroleum and Natural Gas Engineering	3	2	0	E
1		Compulsory electives I		2	2	0	E
1		Compulsory electives II		2	2	0	E
1		Free electives		2	2	0	E
				<b>28</b>			
2	MFKOT10019	Computer applications I.	Institute of Petroleum and Natural Gas Engineering	3	0	3	P
2	MFFAT720007	Graduate research seminar	Institute of Mineralogy and Geology	2	0	1	P
2	MFKOT720022	Drilling engineering I.	Institute of Petroleum and Natural Gas Engineering	6	2	2	E
2	MFKOT730014	Well control lab.	Institute of Petroleum and Natural Gas Engineering	3	0	3	P
2	MFKOT720025	Production engineering fundamentals	Institute of Petroleum and Natural Gas Engineering	6	2	2	E
2	MFKOT720024	Reservoir engineering fundamentals	Institute of Petroleum and Natural Gas Engineering	6	2	2	E
2	MFKGT710005	Fluid mechanics	Institute of Petroleum and Natural Gas Engineering	3	3	0	K
2	MFKOT730036	Transport of hydrocarbons	Institute of Petroleum and Natural Gas Engineering	2	2	0	P
				<b>31</b>			
3	MFKOT730033	Drilling engineering II.	Institute of Petroleum and Natural Gas Engineering	5	2	2	E
3	MFKOT730035	Flow in porous media	Institute of Petroleum and Natural Gas Engineering	3	0	3	P
3	MFKOT730026	Material balance	Institute of Petroleum and Natural Gas Engineering	3	2	1	E
3	MFKOT720017	Artificial lifting I.	Institute of Petroleum and Natural Gas Engineering	6	2	2	E
3	MFKOT730030	Thesis work I.		13	0	13	R
				<b>30</b>			
4	MFKOT720014	Well completion design	Institute of Petroleum and Natural Gas Engineering	3	2	1	E
4	MFKOT730016	NODAL analysis applications	Institute of Petroleum and Natural Gas Engineering	2	0	2	P
4	MFKOT730031	Artificial lifting II.	Institute of Petroleum and Natural Gas Engineering	3	3	0	E
4	MFKOT730015	Reservoir management simulation lab.	Institute of Petroleum and Natural Gas Engineering	3	0	3	P



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4	MFKOT740013	EOR methods	Institute of Petroleum and Natural Gas Engineering	3	2	1	E
4	MFKOT7400021	Thesis work 2.	Institute of Petroleum and Natural Gas Engineering	17	0	17	R
				<b>31</b>			

Required number of credits	120
Number of semesters	4
Field practice	4 weeks (160 working hours)
Leader of the specialisation	Institute of Petroleum and Natural Gas Engineering
Subjects of the final examination	Drilling engineering and well completion Reservoir mechanics Petroleum production

The overall result of the final examination (ZV)	$ZV = \frac{(A1 + A2 + A3) + 3D}{2}$ <p>where</p> <p>D = the result of the thesis defense</p> <p>A1 = the result of oral examination (<i>Drilling engineering and well completion</i>)</p> <p>A2 = the result of oral examination (<i>Reservoir mechanics</i>)</p> <p>A3 = the result of oral examination (<i>Petroleum production</i>)</p>
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