		MS In Petroleum Geoengineering						
Sem.	Neptun code	Subject	Institution	Cr	L	P	assign.	pre-requirement
1	GEMAK712MA	Numerical methods and optimization	Institute of Mathematics	2	1	1	P	no
1	MFFTT710003	Applied geology	Institute of Mineralogy and Geology	3	2	1	E	no
1	MFKOT720021	Computer applications II.	Institute of Petroleum and Natural Gas Engineering	3	0	3	P	no
1	MFGFT7100051	Applied geophysics	Institute of Geophysics and Geoinformation Science	3	2	1	E	no
1	MFKOT720011	Oilfield chemistry	Institute of Petroleum and Natural Gas Engineering	3	2	1	E	no
1	MFKGT740011	Geothermal energy	Institute of Petroleum and Natural Gas Engineering	3	2	0	P	no
1	MFKOT720012	Petroleum economics	Institute of Petroleum and Natural Gas Engineering	2	2	0	E	no
1	MFKOT71011	HSE in petroleum engineering	Institute of Petroleum and Natural Gas Engineering	3	2	0	E	no
1		*Elective course*		2				*no*
1		*Elective course*		2				*no*
1		*Elective course*		2				
				28				
2	MFKOT10019	Computer applications I.	Institute of Petroleum and Natural Gas Engineering	3	0	3	P	no
2	MFFAT720007	Graduate research seminar	Institute of Mineralogy and Geology	2	0	1	P	no
2	MFKOT720022	Drilling engineering I.	Institute of Petroleum and Natural Gas Engineering	6	2	2	E	no
2	MFKOT730014	Well control lab.	Institute of Petroleum and Natural Gas Engineering	3	0	3	P	no
2	MFKOT720025	Production engineering fundamentals	Institute of Petroleum and Natural Gas Engineering	6	2	2	E	no
2	MFKOT720024	Reservoir engineering fundamentals	Institute of Petroleum and Natural Gas Engineering	6	2	2	E	no
2	MFKGT710005	Fluid mechanics	Institute of Petroleum and Natural Gas Engineering	3	3	0	K	no
2	MFKOT730036	Transport of hydrocarbons	Institute of Petroleum and Natural Gas Engineering	2	2	0	P	no
				31				
3	MFKOT730033	Drilling engineering II.	Institute of Petroleum and Natural Gas Engineering	5	2	2	E	Drilling engineering I.
3	MFKOT730035	Flow in porous media	Institute of Petroleum and Natural Gas Engineering	3	0	3	P	Reservoir engineering fundamentals
3	MFKOT730026	Material balance	Institute of Petroleum and Natural Gas Engineering	3	2	1	E	Reservoir engineering fundamentals
3	MFKOT720017	Artificial lifting I.	Institute of Petroleum and Natural Gas Engineering	6	2	2	E	no
3	MFKOT730030	Thesis work I.		13	0	13	R	
				30				
4	MFKOT720014	Well completion design	Institute of Petroleum and Natural Gas Engineering	3	2	1	E	Drilling engineering I.
4	MFKOT730016	NODAL analysis applications	Institute of Petroleum and Natural Gas Engineering	2	0	2	P	Production engineering fundamentals
4	MFKOT730031	Artificial lifting II.	Institute of Petroleum and Natural Gas Engineering	3	3	0	E	no
4	MFKOT730015	Reservoir management simulation lab.	Institute of Petroleum and Natural Gas Engineering	3	0	3	P	Flow in porous media

			MS In Petroleum Geoengineering					
Sem.	Neptun code	Subject	Institution	Cr	L	P	assign.	pre-requirement
4	MFKOT740013	EOR methods	Institute of Petroleum and Natural Gas Engineering	3	2	1	E	Flow in porous media
4	MFKOT7400021	Thesis work 2.	Institute of Petroleum and Natural Gas Engineering	17	0	17	R	min. 84 credit
				31				

Required number of credits	120
Number of semesters	4
Field practice	4 weeks (160 working hours)
Leader of the specialisation	Institute of Geophysics and Geoinformatics
Subjects of the final examination	Integration of geophysical and geological methods in exploration Implementation of exploration projects Integration of geosciences and engineering

The overall result of the final examination (ZV)	$ZV=((A1+A2+A3)/3+D)/2$ where D = the result of the thesis defense A1 = the result of oral examination *(Integration of geophysical and geological methods in exploration)* A2 = the result of oral examination *(Implementation of exploration projects)* A3 = the result of oral examination *(Integration of geosciences and engineering)*