

Programme MS in Petroleum Engineering,  
University of Miskolc, Faculty of Earth Science and Engineering

<b>MS in Petroleum Engineering</b> <b>Course list (Natural science basics - SB; economic and human courses - EH; core professional courses - SzT; differentiated professional courses - DPC)</b>								
semester	course	Course group	department	Lectures / w	Practices / w	ECTS	Course type	Course leader
1	Numerical methods and optimization	SB	GEMAN	1	1	2	g	Dr. Mészáros Józsefné
1	Applied geology	SB	MFFTT	2	1	3	k	Dr. Hartai Éva
1	Fluid mechanics	SB	MFKGT	3	0	3	k	Dr. Bobok Elemér
1	Applied geophysics	SB	MFGFT	2	1	3	k	Dr. Pethő Gábor
1	Drilling engineering I.	PC	MFKOT	3	0	3	k	Dr. Federer Imre
1	Reservoir engineering fundamentals	PC	AKKEM	3	0	3	k	Dr. Bódi Tibor
1	Production engineering fundamentals	PC	MFKOT	3	0	3	k	Dr. Takács Gábor
1	Transport of hydrocarbons	PC	MFKOT	2	1	3	g	Dr. Turzó Zoltán
1	Reservoir lab.	PC	AKKEM	0	3	3	g	Dr. Bódi Tibor
1	Production technology lab. I.	DPC	MFKOT	0	2	2	g	Dr. Turzó Zoltán
1	Drilling design I.	DPC	MFKOT	0	2	2	g	Dr. Federer Imre
2	Computer applications I.	SB	MFKOT	0	2	2	g	Dr. Turzó Zoltán
2	Oilfield chemistry	SB	AKKEM	2	1	3	k	Dr. Lakatos István
2	Graduate research seminar	EH	MFFAT	0	2	2	g	Dr. Márai Ferenc
2	Petroleum economics	EH	MFKOT	2	0	2	k	Dr. Komlóssy Zsolt
2	Drilling engineering II.	PC	MFKOT	3	0	3	k	Dr. Federer Imre
2	Well completion design	DPC	MFKOT	2	1	3	k	Dr. Federer Imre
2	Flow in porous media	DPC	MFKOT	0	2	2	g	Dr. Gilicz András
2	Material balance	DPC	MFKOT	2	2	4	k	Dr. Gilicz András
2	Artificial lifting I.	DPC	MFKOT	3	0	3	k	Dr. Takács Gábor
2	Production technology lab. II.	DPC	MFKOT	0	2	2	g	Dr. Turzó Zoltán
2	Drilling design II.	DPC	MFKOT	0	2	2	g	Dr. Federer Imre
2	<i>Compulsory electives II.</i>	EL		2	0	2	k	
3	Computer applications II.	SB	MFKOT	1	2	3	g	Dr. Turzó Zoltán
3	Artificial lifting II.	DPC	MFKOT	3	0	3	k	Dr. Takács Gábor
3	EOR methods	DPC	AKKEM	2	0	2	k	Dr. Bódi Tibor
3	Well control lab.	DPC	MFKOT	0	3	3	g	Dr. Federer Imre
3	Reservoir management simulation lab.	DPC	MFKOT	0	3	3	g	Dr. Gilicz András
3	NODAL analysis applications	DPC	MFKOT	0	2	2	g	Dr. Turzó Zoltán
3	Thesis work I.	TH		0	10	10	b	
3	<i>Compulsory electives II.</i>	EL		2	0	2	k	
3	<i>Free electives</i>	EL		2	0	2	k	
4	Geothermal energy	SB	MFKGT	2	1	3	g	Dr. Tóth Anikó
4	HSE in petroleum engineering	EH	MFKOT	2	0	2	k	Dr. Szabó Tibor
4	Thesis work 2.	TH		0	25	25	b	