

# UNIVERSITY OF MISKOLC

Petroleum Engineering Department  
Egyetemvaros  
H-3515 Miskolc, Hungary

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DEAN: Jozsef Bohm, PhD  
CHAIR: Gabor Takacs, PhD

## CONTACT INFORMATION

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Dept. Head	Gabor Takacs	36-46-565 078	<a href="mailto:gtakacs@kfg2.kfgi.uni-miskolc.hu">gtakacs@kfg2.kfgi.uni-miskolc.hu</a>
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## DEGREE INFORMATION

### DEGREES OFFERED IN PETROLEUM ENGINEERING

Degree	Petroleum Hours	Total Hours	Curriculum Description
MS	56	185	10 semesters
MS (in English)	56	190	10 semesters
MS (International)	115	120	6 semesters

### ACCREDITATION

All programs all fully accredited by Hungarian authorities.

### CURRICULUM DESCRIPTION

**Masters:** In first five semesters, basic sciences of mathematics, physics, mechanics, chemistry, geology, computers, and all the engineering sciences required for petroleum engineers. In later semesters, advanced studies in drilling, reservoir engineering, production, geothermal and pipeline engineering.

**International students** study in English, a one-year language course is also offered for those not proficient in that language.

**Master's (International) level:** This program is offered for students with BS degrees in petroleum engineering who are capable to continue their studies in English. The MS program is designed to provide students an advanced treatment of petroleum engineering disciplines.

**Doctorate:** A six-semester PhD program in Petroleum Engineering is offered by the Mining School of the University of Miskolc.

### PROGRAM ADMISSION REQUIRMENTS

**Masters:** Final examination from secondary school required as well as taking of an admission examination.:

**Master's (International) level:** BS degree in petroleum engineering with 180 credits and proof of proficiency in English.

## FACULTY INFORMATION

Name	Degree	Position	Major Field of Interest	E-mail	Phone
Gabor Takacs	PhD	Head	Production Engineering, Artificial Lift	<a href="mailto:gtakacs@kfg2.kfgi.uni-miskolc.hu">gtakacs@kfg2.kfgi.uni-miskolc.hu</a>	36-46-565 078
Tibor Bodi	MS	Associate Professor	Reservoir Engineering	<a href="mailto:bodit@kfg2.kfgi.uni-miskolc.hu">bodit@kfg2.kfgi.uni-miskolc.hu</a>	36-46-565 078
Imre Federer	PhD	Associate Professor	Drilling Engineering	<a href="mailto:federeri@kfg2.kfgi.uni-miskolc.hu">federeri@kfg2.kfgi.uni-miskolc.hu</a>	36-46-565 078
Jozsef Papay	PhD	Professor	Reservoir Engineering	<a href="mailto:jpapay@mol.hu">jpapay@mol.hu</a>	
Tibor Szabo	MS	Assistant Lecturer	Drilling Engineering	<a href="mailto:szabot@kfg2.kfgi.uni-miskolc.hu">szabot@kfg2.kfgi.uni-miskolc.hu</a>	36-46-565 078
Jozsef Szepesi	PhD	Professor Emeritus	Drilling Engineering	<a href="mailto:szepesij@kfg2.kfgi.uni-miskolc.hu">szepesij@kfg2.kfgi.uni-miskolc.hu</a>	36-46-565 078
Zoltan Turzo	MS	Assistant Lecturer	Production, Pipelines	<a href="mailto:turzoz@kfg2.kfgi.uni-miskolc.hu">turzoz@kfg2.kfgi.uni-miskolc.hu</a>	36-46-565 078

## ENROLLMENT & DEGREES CONFERRED INFORMATION

Academic Year	Freshman	Sophomore	Junior	Senior	Graduates	B.S.	Master's	M.S.	Doctor's	Ph.D.
1998-1999							120	14		
1999-2000							110	14		
2000-2001							110	14		
2001-2002							120	14		
2002-2003							120			

**Cumulative Master's Degrees Awarded: 554**

## CURRICLUM ANALYSIS

### **MATHEMATICS**

Course Type	Hours Required
Calculus	16
Differential Eqs.	5
Statistics	2
Numerical Methods	2

### **PHYSICS**

Course Type	Hours Required
Mechanics	9
Physics	2

### **CHEMISTRY**

Course Type	Hours Required
General Chemistry	6
Physical Chemistry	3

### **GENERAL ENGINEERING**

Course Type	Hours Required
Material Science	4
Fluid. Heat Flow	11
Mechanical Eng.	8
Electrical Eng.	5
Automation	5
Drawing, Surveying	5
Descript. Geometry	3

### **HSS**

Course Type	Hours Required
Social Sciences	6
Business Studies	5
Electives	10

### **PETROLEUM ENGINEERING**

Course Type	Hours Required
Drilling	12
Reservoir	15
Production	14
Geophysics, Logging	5
Pipeline Eng.	3
Geothermal	2
Gas Processing	5

### **COMMUNICATION**

Course Type	Hours Required
Computer Science	3
Foreign Languages	10

### **GEOLOGY**

Course Type	Hours Required
Mineralogy	3
Sedimentology	3
Petroleum Geology	3

