

**Study Programme: N0724A330001 - Petroleum and Geoenergy Engineering**

 Academic Year: **2026/2027**

 Credit limit: **120**

 Specialization: **Petroleum and Geoenergy Engineering**

 Version: **2026**

 Studies: **Full-time**

 Credit limit: **120**

 Study plan title: **PGE - 1st year of study**
**Obligatory subjects (A)**
**Number of courses: 16 credits: 95**

Abbreviation	Course name	Meaning	Number of credits	Course extent L+T+Sem	Finalization	Recomm. Year Sem.
KGE/MASSS	Advanced Sediment. and Seq. Stratigraphy	Teoretický	5	2+2+0	Zk	1 ZS
KGE/MBPGS	Basin Analysis, Petr. and Geoth. Systems	Teoretický	5	2+2+0	Zk	1 ZS
KGE/MDP1	Diploma Project 1	Profilující	6	0+0+10	Zp	1 ZS
KGE/MGCCCH	Global Climate Change	Teoretický	3	2+0+0	Zk	1 ZS
KGE/MTTP	Thermodynamics and Transport Phenomena	Profilující	5	2+2+0	Zk	1 ZS
KGE/MADE	Advanced Drilling Engineering	Teoretický	5	3+1+0	Zk	1 LS
KGE/MAG	Advanced Geophysics	Teoretický	4	2+1+0	Zk	1 LS
KGE/MDP2	Diploma Project 2	Profilující	10	0+0+12	Zp	1 LS
KGE/MGPS	Gas Production and Storage	Teoretický	5	2+2+0	Zk	1 LS
KGE/MI	Internship	Profilující	12	0+20DS+0	Zp	1 LS
KGE/MIRM	Integrated Reservoir Management	Teoretický	5	2+2+0	Zk	1 LS
KGE/MDP3	Diploma Project 3	Profilující	12	0+0+14	Zp	2 ZS
KGE/MEIA	Environmental Impact Assessments	Teoretický	5	2+2+0	Zk	2 ZS
KGE/MEP	Energy Policy	Teoretický	3	1+1+0	Zk	2 ZS
KGE/MGEGS	Geothermal Eng. and Enh. Geoth. Systems	Profilující	5	2+2+0	Zk	2 ZS
KGE/MCSNW	CO2 Sequestration and Nucl. Waste Manag.	Profilující	5	2+2+0	Zk	2 LS

**State Final Examination (A)**
**Number of courses: 4 credits: 0**

Abbreviation	Course name	Meaning	Number of credits	Course extent L+T+Sem	Finalization	Recomm. Year Sem.
KGE/MSEPG	Petroleum Geosciences		0	0+0+0	Szv	2 LS
KGE/MSEPE	Petroleum Engineering		0	0+0+0	Szv	2 LS
KGE/MSEGE	Geoenergy Engineering		0	0+0+0	Szv	2 LS
KGE/MTD	MA Thesis		0	0+0+0	Odp	2 LS

**Elective courses 1 (B)**
**Selection min.: 17 cr.**

Abbreviation	Course name	Meaning	Number of credits	Course extent L+T+Sem	Finalization	Recomm. Year Sem.
KGE/HSE	Health, Safety and Environment		3	2+0+0	Zk	1 ZS
KGE/MRAG	Reservoir and Aquifer Geochemistry	Teoretický	4	2+1+0	Zk	1 ZS
KGE/MAEOR	Advanced EOR	Profilující	5	3+1+0	Zk	1 LS
KGE/MARCH	Advanced Reservoir Characterization	Profilující	5	3+1+0	Zk	2 ZS
KGE/MCSI	Communication and Social Impact	Teoretický	5	3+1+0	Zk	2 ZS
KGE/MANE	Application of Nanomaterials for Energy	Teoretický	4	2+1+0	Zk	2 LS
KGE/MGISP	GIS App. in Petroleum and Geoenergy Eng.	Profilující	5	3+1+0	Zk	2 LS

**Elective courses 2 (B)**
**Selection min.: 3 cr.**

Abbreviation	Course name	Meaning	Number of credits	Course extent L+T+Sem	Finalization	Recomm. Year Sem.
VCJ/AIII5	Upper-Intermediate General English 5		3*	0+2+0	Zp,Zk	1 ZS
KGE/ANG1	English 1		3	0+2+0	Zp	1 LS
VCJ/AIII6	Upper-Intermediate General English 6		3*	0+2+0	Zp,Zk	1 LS
VCJ/CFF	Czech for foreigners		3	0+2+0	Zp,Zk	2
KGE/OC	Scientific Article		3	0+0+0	Zp	
KGE/OK	Scientific Conference		3	0+0+0	Zp	
VCJ/AKP2	Communicating science 2		2	0+2+0	Zp,Zk	ZS

VCJ/AAP2

Academic English for Scientists 2

2\*

0+2+0

Zk

LS