

Study Programme: **B0724A330002 - Petroleum Engineering**

Academic Year: **2024/2025**

Credit limit: **180**

Specialization: **Petroleum Engineering**

Version: **2021**

Studies: **Full-time**

Credit limit: **180**

Study plan title: **PE**

Obligatory Subjects (A)

Number of courses: **28** credits: **141**

Abbreviation	Course name	Number of credits	Course extent L+T+Sem	Finalization	Recomm. Year Sem.
KGE/XDG	Dynamic Geology	5	28S+28S+0	Zk	1 ZS
KGE/XCHEM	Chemistry	5	28S+28S+0	Zk	1 ZS
KGE/XMP	Mineralogy and Petrology	5	28S+28S+0	Zk	1 ZS
KGE/XPPE	Principles of Petroleum Engineering	5	42S+14S+0	Zk	1 ZS
KMA/XMAT	Mathematics	5	28S+28S+0	Zk	1 ZS
KGE/XPPG	Principles of Petroleum Geology	5	28S+28S+0	Zk	1 LS
KGE/XRE	Reservoir Engineering	5	42S+14S+0	Zk	1 LS
KGE/XSES	Sedimentology and Stratigraphy	5	28S+28S+0	Zk	1 LS
KGE/XTH	Thermodynamics	5	28S+28S+0	Zk	1 LS
KGI/XGIS	GIS applications	5	28S+28S+0	Zk	1 LS
KGE/XAG	Aquatic Geochemistry	3	28S+0+0	Zk	2 ZS
KGE/XDE	Drilling Engineering	7	56S+28S+0	Zp,Zk	2 ZS
KGE/XEG	Economic Geology	5*	28S+28S+0	Zk	2 ZS
KGE/XGPH	Geophysics	7	42S+42S+0	Zp,Zk	2 ZS
KGE/XMRR	Microscopy of Reservoir Rocks	4	14S+28S+0	Zk	2 ZS
KGE/XSP	Separation Processes	5	42S+14S+0	Zk	2 ZS
KGE/XCRCH	Carbonate Reservoir Characterization	5	42S+14S+0	Zk	2 LS
KGE/XEOR	Enhanced Oil Recovery	5	42S+14S+0	Zk	2 LS
KGE/XFE	Formation Evaluation	5	28S+28S+0	Zk	2 LS
KGE/XGH	Groundwater Hydraulics	3	28S+0+0	Zk	2 LS
KGE/XPEC	Petroleum Economics	5	42S+14S+0	Zk	2 LS
KGE/XWCW	Well Completions and Workovers	5	56S+0+0	Zp,Zk	2 LS
KGE/XWLA	Well Log Analysis	5	28S+28S+0	Zk	2 LS
KGE/XWT	Well Testing	5	56S+0+0	Zp,Zk	2 LS
KGE/XASG	Applied and Structural Geology	3	28S+0+0	Zk	3 ZS
KGE/XGME	Geology of Middle East	3	28S+0+0	Zk	3 ZS
KGE/XSTGE	Statistics in Geosciences	4*	14S+28S+0	Zp,Zk	3 ZS
KGE/XBAC	Bachelor Project	12	0+168S+0	Zp	3 LS

State Final Examination (A)

Number of courses: **3** credits: **0**

Abbreviation	Course name	Number of credits	Course extent L+T+Sem	Finalization	Recomm. Year Sem.
KGE/SZZXG	Petroleum Geoscience	0	0+0+0	Szv	3
KGE/SZZXE	Petroleum Engineering	0	0+0+0	Szv	3
KGE/OBHBP	Bachelor Thesis	0	0+0+0	Ozp	3

Elective Courses - Group 1 (B)

Selection min.: **10 cr.**

Abbreviation	Course name	Number of credits	Course extent L+T+Sem	Finalization	Recomm. Year Sem.
KGE/XPPE	Production Engineering	5	28S+28S+0	Zk	2 ZS
KGE/XSM	Strength of Materials	4	42S+0+0	Zk	2 ZS
KGE/XGK	Quaternary Geology	3*	28S+0+0	Zk	3 ZS
KGE/XMECH	Rock and Soil Mechanics	3	28S+0+0	Zk	3 ZS
KGE/XHYGE	Hydrogeology	3*	28S+0+0	Zk	3 LS

Elective Courses - Group 2 (B)**Selection min.: 13 cr.**

Abbreviation	Course name	Number of credits	Course extent L+T+Sem	Finalization	Recomm. Year Sem.
KGE/XPT	Practical Training	12	0+20DS+0	Zp	2 LS
KGE/XKMG	Course of Shallow Geophysics	5*	0+5DS+0	Zp	3 ZS
KGE/XMMZG	Modern Methods of Geoph. Data Processing	3*	0+28S+0	Zp	3 ZS
KGE/XTCEG	Field Labs in Environmental Geology	5*	0+5DS+0	Zp	3 ZS
KGE/XTCGE	Field Trip in Geology	5*	0+5DS+0	Zp	3 LS

Optional Courses (C)

Abbreviation	Course name	Number of credits	Course extent L+T+Sem	Finalization	Recomm. Year Sem.
VCJ/CFF	Czech for foreigners	3	0+2+0	Zp,Zk	3