FACULTY OF ENGINEERING SCIENCE AND TECHNOLOGY

MSC-PROGRAMME IN PETROLEUM ENGINEERING AND PETROLEUM GEOSCIENCES

Term 1, 2, 3 and 4

PETROLEUM ENGINEERING (MSG1)

Ex	Subject no.	Subject title	Note	Cr	Specialization 1	2	3	4
		Compulsory and optional courses	1					
1h	TPG4145	RESERVOIR FLUIDS		7,5	o	o	v	v
1h	TPG4150	RESERVOIR REC TECHN		7,5	o	o	o	o
1h	TPG4177	CARB RESERVOIR CHAR		7,5	v	v	v	v
1h	TPG4215	HIGH DEV DRILLING		7,5	v	v	o	v
1h	TPG4235	WELL TESTING AC	2	7,5	v	v	v	v
1h	TPG5100	MATH/COMPUTER METHOD		7,5	o	o	o	o
1h	TPG5120	PETROPHYSICS BC	3	7,5	v	v	v	v
1v	TPG4160	RESERVOIR SIMULATION		7,5	o	v	v	v
1v	TPG4180	PETR PHYS INTERPR AC	3	7,5	v	v	v	o
1v	TPG4205	DRILL TECH PR CONTR		7,5	v	v	v	v
1v	TPG4220	DRILLING FLUID		7,5	v	v	o	v
1v	TPG4225	FRACTURED RESERVOIR		7,5	v	v	v	v
1v	TPG4230	FIELD DEVELOPMENT		7,5	v	o	v	v
1v	TPG5110	PETROLEUM ECONOMICS		7,5	v	v	v	v
		Compulsory and optional courses	4					
2h	TPG4185	FORMATION MECHANICS		7,5	v	v	v	v
2h	TPG4235	WELL TESTING AC	2	7,5	v	v	v	v
2h	TPG5200	PET ENG/GEO INT PROJ		7,5	v	v	v	v
		Specialization courses	5					
2h	TPG4505	FORM EV-ENG SC		7,5	-	-	-	o
2h	TPG4515	PETR PROD SC		7,5	-	o	-	-
2h	TPG4525	DRILLING ENG SC		7,5	-	-	o	-
2h	TPG4535	RESERVOIR ENG SC		7,5	o	-	-	-
		Specialization project	6					
2h	TPG4500	FORM EV-ENG SP		15,0	-	-	-	o
2h	TPG4510	PETR PROD SP		15,0	-	o	-	-
2h	TPG4520	DRILLING ENG SP		15,0	-	-	o	-
2h	TPG4530	RESERVOIR ENG SP		15,0	o	-	-	-
		Master Thesis						
2v	TPG4920	PETROL ENGINEERING		30,0	o	o	o	o

o - compulsory courses
v - optional courses

Ex 1h = Term 1, Exam Autumn
Ex 1v = Term 2, Exam Spring
Ex 2h = Term 3, Exam Autumn
Ex 2v = Term 4, Master Thesis Spring

1) Two optional subjects must be chosen in the autumn semester (1h) in specialization 4. In specialization 1, 2 and 3 one optional subject must be chosen. Three subjects must be chosen in the spring semester for all specializations.
2) Prerequisite: A introductory course in well testing.
3) TPG4180 requires TPG5120 or equivalent.
4) One subject must be chosen in the third semeser (2h). In addition to the subjects listed, students can also choose from first semester, Petroleum Engineering and Petroleum Geosciences.
5) One specialization course of 7,5 credit points must be chosen.
6) Specialization projects must be chosen according to elected specialization.

cont.

Specialization:
1. Reservoir Engineering
2. Petroleum Production
3. Drilling Engineering
4. Formation Evaluation

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Term 1, 2, 3 and 4

PETROLEUM GEOSCIENCES (MSG2)

Ex	Subject no.	Subject title	Note	Cr	Specialization 1	Specialization 2
		Compulsory and optional courses	1			
1h	TGB4160	PETROLEUM GEOLOGY		7,5	v	v
1h	TPG4120	ENG/ENVIRONM GEOPHYS	2	7,5	v	v
1h	TPG4125	SEISMIC WAVE PROP		7,5	o	o
1h	TPG4150	RESERVOIR REC TECHN		7,5	v	v
1h	TPG4177	CARB RESERVOIR CHAR		7,5	v	v
1h	TPG4185	FORMATION MECHANICS		7,5	v	v
1h	TPG4195	GRAVIMETR MAGNETOMET		7,5	v	v
1h	TPG5100	MATH/COMPUTER METHOD		7,5	o	o
1h	TPG5120	PETROPHYSICS BC	3	7,5	v	v
1v	TGB4135	BASIN ANALYSIS		7,5	v	v
1v	TGB4170	DIAGENESIS/RESQUAL		7,5	v	v
1v	TPG4130	SEISMIC INTERPRET		7,5	o	o
1v	TPG4170	RESERVOIR SEISMICS		7,5	v	v
1v	TPG4180	PETR PHYS INTERPR AC	3	7,5	v	v
1v	TPG5110	PETROLEUM ECONOMICS		7,5	v	v
2h	TPG4190	SEISMIC DATA		7,5	o	v
2h	TPG5200	PET ENG/GEO INT PROJ		7,5	-	v
		Specialization courses	4			
2h	TGB4565	PETR GEOLOGY SC		7,5	-	o
2h	TPG4545	PETR GEOPHYS SC		7,5	o	-
		Specialization project	5			
2h	TGB4560	PETR GEOLOGY SP		15,0	-	o
2h	TPG4540	PETR GEOPHYS SP		15,0	o	-
		Master Thesis	6			
2v	TGB4915	PETROLEUM GEOSCIENCE		30,0	-	o
2v	TPG4925	PETROLEUM GEOSCIENCE		30,0	o	-

o - compulsory courses
v - optional courses

Ex 1h = Term 1, Exam Autumn
Ex 1v = Term 2, Exam Spring
Ex 2h = Term 3, Exam Autumn
Ex 2v = Term 4, Master Thesis Spring

1) Totally four subjects must be chosen each semester. In addition to the subjects (listed 2h) students can choose from 1h Petroleum Engineering, 1h Petroleum Geosciences and PhD-courses if taught in English.
2) The course is not considered when planning the teaching and examination schedules.
3) TPG4180 requires TPG5120 or equivalent.
4) One specialization course must be chosen, either one topic of 7,5 cr or two topics of 3,75.
5) Specialization projects must be chosen according to elected specialization.
6) The master thesis must be chosen according to elected specialization.

Specialization:
1. Petroleum Geophysics
2. Petroleum Geology