



Sultan Qaboos University
Academic Degree and Degree Plan of Postgraduate Studies Program

College	Engineering		
Department	Petroleum and Chemical Engineering	Degree	M.Sc.
Program- Major	Petroleum and Natural Gas Engineering	Cohort	2026-2027
Specialization	Petroleum and Natural Gas Engineering	Mode of Study	☐ Full time ☐ Part time ☒ Both

Credit Required for Graduation	30		
Core Courses	Thesis	Elective Courses	
9	6	15	

Program Option		
☒ Courses and thesis	☐ Thesis Only	☐ Courses Only
☐ Courses & Examination		

Core Courses		
Course Code	Course Title	Credits
ENGR6913	Advanced Engineering Mathematics	3
PNGE6001	Transport Processes in Porous Media	3
PNGE6002	Advanced Reservoir Engineering	3
Total		9

Elective Courses		
Course Code	Course Title	Credits
ENGR6910	Advanced Engineering Probability and Statistics	3
ENGR6911	Advanced Engineering Management	3
ENGR6920	Renewable Energy Systems	3
ERSC6101	Petroleum System Analysis	3
ERSC6102	Wireline Analysis	3
ERSC6109	Description and Prediction of Reservoir Quality	3

ERSC6110	Petroleum Geology of the Middle East	3
PNGE6101	Advanced Production Engineering	3
PNGE6102	Natural Gas Engineering	3
PNGE6103	Applied Reservoir Simulation	3
PNGE6104	Reservoir Characterization and Evaluation	3
PNGE6105	Enhanced Oil Recovery Methods	3
PNGE6108	Thermophysical properties of oils and gases	3
PNGE6111	Advanced Petroleum Geology	3
PNGE6112	Applied Geostatistics	3
PNGE6121	Economic Evaluation of Subsurface Reservoirs	3
PNGE6211	Petroleum Data Mining	3
PNGE6312	Production Enhancement	3
PNGE6900	Special Topics	3
ENGR6000	Research Methodology and Ethics in Engineering	3
CHPE6312	Advanced Carbon Capture, Utilization and Storage	3
Total		15

Thesis		
Course Code	Course Title	Credits
PNGE7002	Master Thesis	6
Total		6

Approval and Signatures		
Program Coordinator:	Head of Department:	Assistant Dean for Postgraduate Studies and Research:
Prof. Rashid Al-Maamari 	Dr. Rashid Al-Hajri 	Dr. Majid Al-Maharbi 

Note: - New courses can be added.

- Please seal all pages when adding new pages.