

PETROLEUM AND NATURAL GAS ENGINEERING (Study Plan)

First Year: First Semester								
Pre- Requested					Code / No	Course Title		
	Total C.H.	Tut.	Pr.	Th.				
	3	0	0	3	U 105	ISLAMIC CULTURE		
	3	0	0	3	U 101	ARABIC LANGUGE (1)		
	3	0	0	3	U 103	ENGLISH LANGUGE (1)		
	3	0	1	2	PNR 111	GENERAL GEOLOGY (1)		
	3	1	0	2	PNR 113	GENERAL MATHS		
	2	0	0	2	U 107	ARAB ISRAILI CONFLICT		
	17	1	1	15	Total Credit Hours			

First Year: Second Semester								
Pre- Requested					Code / No	Course Title		
	Total C.H.	Tut.	Pr.	Th.				
	3	0	0	3	U 102	ARABIC LANGUGE (2)		
	3	0	0	3	U 104	ENGLISH LANGUGE (2)		
	3	0	1	2	PNR 112	GENERAL GEOLOGY (2)		
	3	0	1	2	PNR 114	GENERAL CHEMISTRY		
	3	0	1	2	PNR 115	GENERAL PHYSICS		
	2	0	0	2	PNR 116	PRINCIPLES OF ENVIRONMENTAL SCIENCES		
	2	0	0	2	U 106	NATIONAL CULTURE		
	19	0	3	16	Total Credit Hours			

Second Year: First Semester								
Pre- Requested					Code / No	Course Title		
	Total C.H.	Tut.	Pr.	Th.				
PNR 112	3	0	1	2	PNGE 221	Petroleum Geology for Engineers		
	3	0	1	2	PNGE 223	MATERIALS STRENGTH		
	3	0	1	2	PNGE 224	FLUID MECHANICS		
	3	0	1	2	PNR 213	GEOPHYSICS		
PNR 112	3	0	1	2	PNR 212	SEDIMENTOLOGY & STRATIGRAPHY		
	2	0	0	2	PNR 215	PRINCIPLES OF ENGINEERING GEOLOGY		
	17	0	5	12	Total Credit Hours			

Second Year: Second Semester								
Pre- Requested					Code / No	Course Title		
	Total C.H.	Tut.	Pr.	Th.				
PNGE 221	3	0	0	3	PNGE 222	Introduction to Petroleum Engineering		
PNR 212	3	0	1	2	PNGE 226	Reservoir Rock and Fluids Properties		
	2	0	0	2	PNGE 261	Sedimentary Basins and Petroleum System of Yemen		
	2	0	0	2	PNGE 262	Sedimentation Process and Production		
	3	1	0	2	PNR 214	Statistics		
	3	0	1	2	PNR 211	Computer Programming		
PNGE 224	3	0	1	2	PNGE 225	Engineering Thermodynamics		
	19	1	3	15	Total Credit Hours			

Third Year: First Semester

Pre- Requested					Code / No	Course Title		
	Total C.H.	Tut.	Pr.	Th.				
PNGE 222	3	0	1	2	PNGE 331	Petroleum Drilling Engineering (1)		
PNGE 222	3	0	1	2	PNGE 341	Petroleum Reservoir Engineering (1)		
PNGE 222	3	1	0	2	PNGE 351	Petroleum Production Engineering		
	3	1	0	2	PNGE 343	Well Logging		
	3	0	1	2	PNGE 327	Petroleum Properties		
	3	0	1	2	PNR 311	Structural Geology		
	18	2	4	12	Total Credit Hours			

Third Year: Second Semester

Pre- Requested					Code / No	Course Title		
	Total C.H.	Tut.	Pr.	Th.				
PNGE 331	3	0	1	2	PNGE 332	Petroleum Drilling Engineering (2)		
PNGE 341	3	0	1	2	PNGE 342	Petroleum Reservoir Engineering (2)		
PNR 211	3	0	1	2	PNGE 363	Computer Application in Petroleum Engineering		
PNGE 343	3	0	1	2	PNGE 344	Formation Evaluation		
	3	0	1	2	PNR 312	REMOTE SENSING & GIS		
	3	0	1	2	PNR 313	Geology of Yemen		
	18	0	6	12	Total Credit Hours			

Fourth Year: First Semester

Pre- Requested					Code / No	Course Title		
	Total C.H.	Tut.	Pr.	Th.				
PNGE 351	3	1	0	2	PNGE 453	Enhanced Oil Recovery		
PNGE 342, PNR 214, PNGE 363	4	1	1	2	PNGE 445	Reservoir Modeling & Simulation		
PNGE 332	3	1	0	2	PNGE 433	Well completion		
PNGE 342	3	1	0	2	PNGE 446	Natural Gas Engineering		
	2	0	0	2	PNGE 465	Health and Safety in Petroleum Industry		
	2	0	0	2	PNGE 466	Graduation Project (1)		
	17	4	1	12	Total Credit Hours			

Fourth Year: Second Semester

Pre- Requested					Code / No	Course Title		
	Total C.H.	Tut.	Pr.	Th.				
PNGE 446, PNGE 453	3	0	1	2	PNGE 452	Natural Gas Production Engineering		
	2	0	0	2	PNGE 464	Petroleum Economics		
PNGE 351	3	1	0	2	PNGE 434	Well Testing		
	2	0	0	2	PNGE 454	Surface Facilities		
	2	0	0	2	PNGE 467	Graduation Project (2)		
	12	1	1	10	Total Credit Hours			