

Oil and Gas Engineering (4 years, 240 ECTS, Bachelor of Science)
TABLE 2: COURSE DISTRIBUTION PER SEMESTER

A/A	Course Type	Course Name	Course Code	Periods per week	Period duration	Number of weeks/ Academic semester	Total periods/ Academic semester	Number of ECTS
A' Semester								
1.	R	Introduction to Oil and Gas Engineering	OGEE-101	4	50'	13	52	8
2.	R	Physical Geology	GEOL-110	3	50'	13	39	6
3.	R	General Chemistry	CHEM-106	5	50'	13	65	8
4.	R	Calculus I	MATH-190	4	50'	13	52	8
B' Semester								
5.	R	Chemistry for the Petrochemical Industry	CHEM-126	5	50'	13	65	8
6.	R	Petroleum Geology	GEOL-210	4	50'	13	52	6
7.	R	Calculus II	MATH-191	4	50'	13	52	8
8.	R	General Physics I	PHYS-150	5	50'	13	65	8
C' Semester								
9.	R	Technical Writing & Research	BADM-332	3	50'	13	39	6
10.	R	Ordinary Differential Equations	MATH-330	3	50'	13	39	6
11.	R	Probability and Statistics for Engineers	ENGR-280	3	50'	13	39	6

12.	R	Thermodynamics I	MENG-260	3	50'	13	39	6
13.	E	Major or Engineering or Business or Liberal Arts Elective	From List	3	50'	13	39	6
D' Semester								
14.	R	Fluid Mechanics	MENG-280	3	50'	13	39	6
15.	R	Numerical Methods Using Matlab	ENGR-290	3	50'	13	39	6
16.	R	Economics of the Oil and Gas Industry	OGEE-310	3	50'	13	39	6
17.	R	Heat and Mass Transfer	MENG-290	3	50'	13	39	6
18.	E	Major or Engineering or Business or Liberal Arts Elective	From List	3	50'	13	39	6
E' Semester								
19.	R	Petrophysics	OGEE-225	5	50'	13	65	8
20.	R	Drilling Engineering	OGEE-320	5	50'	13	65	8
21.	R	Reservoir Engineering I	OGEE-325	4	50'	13	52	8
22.	E	Major Elective	From List	3	50'	13	39	6
F' Semester								
23.	R	Programming for Engineers	ENGR-111	4	50'	13	52	8
24.	R	Formation Evaluation	OGEE-340	3	50'	13	39	6
25.	R	Well Construction and Completion Design	OGEE-350	4	50'	13	52	8
26.	R	Petroleum Production Engineering	OGEE-360	4	50'	13	52	8

G' Semester								
27.	R	Offshore Engineering	OGEE-370	3	50'	13	39	6
28.	R	Health, Safety and Environment	OGEE-401	3	50'	13	39	6
29.	R	Reservoir Engineering II	OGEE-425	4	50'	13	52	6
30.	R	Capstone Design Project I	OGEE-492A	1	50'	13	13	6
31.	E	Major Elective	From List	3	50'	13	39	6
H' Semester								
32.	R	Natural Gas Production Engineering	OGEE-420	4	50'	13	52	6
33.	R	Hydrocarbon Recovery Techniques	OGEE-430	3	50'	13	39	6
34.	R	Geophysical Methods	OGEE-460	3	50'	13	39	6
35.	R	Capstone Design Project II	OGEE-492B	1	50'	13	13	6
36.	E	Major Elective	From List	3	50'	13	39	6