



الخطة الدراسية لقسم الهندسة النفطية
Study Plan of Petroleum Engineering Dept.

1- First Semester Courses

S. No.	Course No.	Course Title	Credits	Prerequisite(s)
1	GEN-101	General English I	3	-
2	ENG-111	Mathematics I	3	-
3	ENG- 132	Physics I	3	-
4	GEN-103	Engineering Drawing	3	-
5	GEN-131	Computer skills	3	-
6	GEN-01	Arabic Language	3	-
			18	

2- Second Semester Courses

S. No.	Course No.	Course Title	Credits	Prerequisite(s)
1	GEN-102	General English II	3	GEN-101
2	ENG-112	Mathematics II	3	ENG-111
3	PET-120	Engineering Chemistry	3	-
4	PET-211	Introduction to Petroleum Engineering	3	-
5	GEN-02	Islamic education	3	-
			15	

3- Third Semester Courses

S. No.	Course No.	Course Title	Credits	Prerequisite(s)
1	PET - 212	Physical Geology + Lab	4	ENG-132 / PET-120
2	PET - 213	Fundamentals of Electrical Engineering	3	ENG-132
3	PET - 214	Applied Mechanics	3	ENG-112 / ENG-132
4	PET - 215	Applied Chemistry I	3	PET-120
5	PET - 216	Differential Equations	3	ENG-112
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4- Fourth Semester Courses

S. No.	Course No.	Course Title	Credits	Prerequisite(s)
1	PET - 221	Drilling & Production Machinery	3	PET - 211
2	PET - 222	Structural Geology + Lab	4	PET - 212
3	PET - 223	Applied Thermodynamics	3	PET - 215
4	PET - 224	Fluid Mechanics	3	PET - 214
5	PET - 225	Applied Chemistry II	3	PET - 215
6	PET - 226	Set Theory & Statistics	3	PET - 216
			19	

5- Fifth Semester Courses

S. No.	Course No.	Course Title	Credits	Prerequisite(s)
1	PET - 311	Exploration Methods for Oil	3	PET – 222 / ENG-132
2	PET - 312	Drilling fluids + Lab	4	PET – 221 / PET - 225
3	PET - 313	Petroleum Geology	3	PET – 222
4	PET - 314	Drilling & Oil Well Design	3	PET - 221
5	PET - 315	Reservoir Rock Properties + Lab	4	PET – 211
6	PET - 316	Reservoir Fluid Properties + Lab	4	PET - 211
			21	

6- Sixth Semester Courses

S. No.	Course No.	Course Title	Credits	Prerequisite(s)
1	PET - 321	Applied Reservoir Engineering	3	PET – 315 / PET - 316
2	PET - 322	Fluids Flow in Porous Media	3	PET – 315 / PET - 316
3	PET - 323	Well Testing analysis	3	PET - 314
4	PET - 324	Production Engineering I	3	PET - 221
5	PET - 325	Well Completion	3	PET - 314
6	PET - 326	Drilling Technology	3	PET – 221 / PET - 312
			18	



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7- Seventh Semester Courses

S. No.	Course No.	Course Title	Credits	Prerequisite(s)
1	PET - 411	Production Engineering II	3	PET - 324
2	PET - 412	Natural Gas Engineering	3	PET – 321 / PET – 316
3	PET - 413	Reservoir Simulation	3	PET - 321
4	PET - 414	Well Logging + Lab	4	PET - 325
5	PET - 415	Computer Applications in Pet. Eng.	3	GEN-131
6	PET - 416	Project I	3	-
			19	

8- Eighth Semester Courses

S. No.	Course No.	Course Title	Credits	Prerequisite(s)
1	PET - 421	Transportation & Storage Of Petroleum	3	PET – 224 / PET - 411
2	PET - 422	Enhanced Oil Recovery (EOR)	3	PET - 321
3	PET - 423	Safety & Loss Prevention	3	-
4	PET - 424	Petroleum Engineering Economics	3	-
5	PET - 425	Project II	5	PET - 416
			17	

Total Courses = 45

Total Credits = 143