

Ministry of Higher Education and Scientific Research
Scientific supervision and evaluation device
Department of Quality Assurance and Academic Accreditation

Academic Program Description 2021-2022

University: Mosul
College/Institute: **College of Petroleum & Mining Engineering**
Scientific Department: **Petroleum Reservoir**
Date of filling out the file: 1/8/2022
signature:
Name of Department Head: **Dr.Yasser H.Kddo**
Name of the scientific assistant: **Dr.Mohammed Ali Alrashedi**

Check the file before Division of Quality Assurance and University Performance
Name of the Director of the Division of Quality Assurance and University Performance:
Asmaa Mowaffak Hamed AlHasany



Authentication of the Dean
Assistant Prof. Maan Hassan Al-majed



Academic Program Details (Curriculum)

First Stage

First Semester									
Second Semester			First Semester			Credits	Subject Name	Code	ت
D.	Pr.	Th.	D.	Pr.	Th.				
			---	3	2	3.5	Geology for engineers I	PRE 111	1
			---	---	2	2	Engineering mechanics I	PRE 112	2
			---	---	3	3	Mathematics I	PRE 113	3
			---	---	2	2	English I (Reading & Writing)	PRE 114	4
			---	2	2	3	Chemistry of Oil & Gas	PRE 115	5
			---	4	1	3	Engineering Drawing	PRE 116	6
			---	2	2	3	Electrical Technology	PRE 117	7
			---	---	1	1	Chemical Safety	PRE 125	8
				11	15	21.5	Sum.		
				26					

First Stage

Second Semester									
Second Semester			First Semester			Credits	Subject Name	Code	ت
D.	Pr.	Th.	D.	Pr.	Th.				
---	3	2				3.5	Geology for engineers II	PRE 118	1
---	---	2				2	Engineering mechanics II	PRE 119	2
---	---	3				3	Mathematics II	PRE 120	3
---	---	2				2	English.II(Listening& Speaking)	PRE 121	4
---	---	2				2	Human Rights & Democracy	PRE 122	5
---	---	3				3	Principals of Petroleum Engineering	PRE 123	6
---	2	1				3	Engineering drawing using AUTOCAD	PRE 124	7
---	---	1				1	Chemical Security	PRE 126	8
---	8	16				21.5	Sum.		
	24								

Second Stage

First Semester									
Second Semester			First Semester			Credits	Subject Name	Code	ت
			D.	Pr.	Th.				
			---	3	2	3.5	Gravity&magnetic Prospecting	PRE 212	1
			---	3	2	3.5	Petroleum Geology	PRE 213	2
			---	---	3	3	Fundamentals of Petroleum Reservoir. Eng. I	PRE 214	3
			---	4	2	4	Computer Applications in Engineering (MATLAB)	PRE 215	4
			---	---	2	2	Numerical Analysis	PRE 216	5
			---	---	3	3	Engineering Statics	PRE 217	6
				10	14	19	Sum.		
			24						

Second Stage

Second Semester									
Second Semester			First Semester			Credits	Subject Name	Code	ت
D.	Pr.	Th.							
	2	2				3	Fluid mechanics	PEE211	1
---	2	2				3	Serving Engineering	PRE 218	2
---	---	3				3	Fundamentals of Petroleum Reservoir. Eng. II	PRE 221	3
---	---	3				3	Thermodynamics	PRE 222	4
---	2	2				3	Engineering Analysis	PRE 223	5
---	---	3				3	Strength of Materials	PRE 224	6
---	6	15				18	Sum.		
21									

Third Stage

First Semester									
Second Semester			First Semester			Credits	Subject Name	Code	ت
			D.	Pr.	Th.				
			---	3	2	3.5	Seismic Reflection 2,3,4D (Processing & interpretation)	PRE 311	1
			---	3	2	3.5	Well logging	PRE 312	2
			---	---	3	3	Drilling Engineering I	PRE 313	3
			---	3	2	3.5	Rock Mechanics	PRE 314	4
			---	---	3	3	Production Engineering I	PRE 315	5
			---	3	2	3.5	Applied petroleum reservoir engineering I	PRE 316	6
				12	14	20	Sum.		
			26						

Third Stage

Second Semester									
Second Semester			First Semester			Credits	Subject Name	Code	ت
D.	Pr.	Th.							
---	---	3				3	Drilling Engineering II	PRE 317	1
---	3	2				3.5	Applied petroleum reservoir engineering II	PRE 318	2
---	---	3				3	Production Engineering II	PRE 319	3
---	---	3				3	Natural gas technology	PRE 320	4
---	3	2				3.5	Seismic interpretation	PRE 321	5
---	2	2				3	Formation evaluation	PRE 322	6
---	8	15				19	Sum.		
23									

Fourth Stage

First Semester									
Second Semester			First Semester			Credits	Subject Name	Code	ت
D.	Pr.	Th.	D.	Pr.	Th.				
			---	---	3	3	Enhanced oil recovery I	PRE 411	1
			---	3	2	3.5	reservoir characterization	PRE 412	2
			---	3	2	3.5	petroleum system modeling	PRE 419	3
			---	3	2	3.5	Advanced petroleum reservoir engineering	PRE 414	4
			---	2	2	3	Core Analysis	PRE 415	5
				3	1	5	Engineering Project		6
			---	11	12	21.5	Sum.		
			23						

Fourth Stage

Second Semester									
Second Semester			First Semester			Credits	Subject Name	Code	ت
D.	Pr.	Th.	D.	Pr.	Th.				
--	---	3				3	Enhanced oil recovery II	PRE 417	1
--	2	2				3	Reservoir Simulation	PRE 418	2
---	---	2				2	Petroleum Economic	PRE 413	3
---	3	2				3.5	Well testing	PRE 420	4
---	2	2				3	Petroleum reservoir management	PRE 421	5
---	7	11				14.5	Sum.		
18									
			35			Total Sum.			

Summation Credits for all the stages:

$$50 + 45 + 49 + 58 = 202$$