



## Module Descriptions for the Department of Petroleum Reservoir Engineering

### First Year Curriculum (Bologna Process) - Semester One

Semester	No.	Module Code	Module Name	SSWL	USSWL	SWL	ECTS
				hr/sem	hr/sem	hr/sem	
One	1	PRE 111	Geology for Engineers 1	93	82	175	7.00
	2	PRE 112	Engineering Mechanics 1	63	87	150	6.00
	3	PRE 113	Mathematics 1	78	72	150	6.00
	4	PRE 114	English Language (Reading and Writing)	33	17	50	2.00
	5	PRE 115	Engineering Drawing	93	82	175	7.00
	6	UOM 104	Human Rights and Democracy	31	19	50	2.00
	<b>Total</b>				391	359	750

### First Year Curriculum (Bologna Process) - Semester Two

Semester	No.	Module Code	Module Name	SSWL	USSWL	SWL	ECTS
				hr/sem	hr/sem	hr/sem	
Two	1	PRE 121	Geology for Engineers 2	93	57	150	6.00
	2	PRE 122	Engineering Mechanics 2	63	37	100	4.00
	3	PRE 123	Mathematics 2	78	47	125	5.00
	4	UOM 105	Arabic Language	33	17	50	2.00
	5	PRE 125	Computer-Aided Engineering Drawing	93	32	125	5.00
	6	PRE 126	Fundamentals of Petroleum Engineering	48	77	125	5.00
	7	UOM 103	Computer	48	27	75	3.00
	<b>Total</b>				456	294	750

## Second Year Curriculum (Semester System)

<b>Second Year / First Semester</b>									
No.	Code	Module Name	Units	Semester I			Semester II		
				Th.	E	T	Th.	E	T
1	PRE 212	Computer Applications	3.5	2	3	---			
2	PRE 213	Petroleum Geology	3.5	2	3	---			
3	PRE 214	Fundamentals of Petroleum Reservoir. Eng. I	3	3	---	---			
4	PRE 215	Engineering Statics	3	3	---	---			
5	PRE 216	Numerical Analysis	2	2	---	---			
6	PRE 217	Fluid mechanics	5	4	2	---			
7	PRE 218	Crimes of the Ba'ath Party	2	2	---	---			
<b>Total</b>			22	18	8				
				26					

## Second Year Curriculum (Semester System)

<b>Semester II /Second Year</b>									
No.	Code	Module Name	Units	Semester I			Semester II		
				Th.	E	T	Th.	E	T
1	PEE211	Gravity & magnetic Prospecting	3				2	2	
2	PRE 218	Serving Engineering	3				2	2	---
3	PRE 221	Fundamentals of Petroleum Reservoir. Eng. II	3				3	---	---
4	PRE 222	Thermodynamics	3				3	---	---
5	PRE 223	Engineering Analysis	3				2	2	---
6	PRE 224	Strength of Materials	3				3	---	---
<b>Total</b>			18				15	6	---
							21		

### Third Year Curriculum (Semester System)

Semester I / Third Year									
No.	Code	Module Name	Units	Semester I			Semester II		
				.Th	E	T	.Th	E	T
1	PRE 311	Seismic Reflection 2,3,4D (Processing & interpretation)	3.5	2	3	---			
2	PRE 312	Well logging	3.5	2	3	---			
3	PRE 313	Drilling Engineering I	3	3	---	---			
4	PRE 314	Rock Mechanics	3.5	2	3	---			
5	PRE 315	Production Engineering I	3	3	---	---			
6	PRE 316	Applied petroleum reservoir engineering I	3.5	2	3	---			
<b>Total</b>			20	14	12				
				26					

### Third Year Curriculum (Semester System)

Semester II / Third Year									
No.	Code	Module Name	Units	Semester I			Semester II		
				Th.	E	T	Th.	E	T
1	PRE 317	Drilling Engineering II	3				3	---	---
2	PRE 318	Applied petroleum reservoir engineering II	3.5				2	3	---
3	PRE 319	Production Engineering II	3				3	---	---
4	PRE 320	Natural gas technology	3				3	---	---
5	PRE 321	Seismic interpretation	3.5				2	3	---
6	PRE 322	Formation evaluation	3				2	2	---
<b>Total</b>			19				15	8	---
							23		

### Fourth Year Curriculum (Semester System)

Fourth Year /Semester I									
No.	Code	Module Name	Units	Semester I			Semester II		
				Th.	E	T	Th.	E	T
1	PRE 411	Enhanced oil recovery I	3	3	---	---			
2	PRE 412	reservoir characterization	3.5	2	3	---			
3	PRE 419	petroleum system modeling	3.5	2	3	---			
4	PRE 414	Advanced petroleum reservoir engineering	3.5	2	3	---			
5	PRE 415	Core Analysis	3	2	2	---			
6	PRE 416	Graduation Project	5	1	3		Annual		
<b>Total</b>			21.5	12	11	---			
				23					

### Fourth Year Curriculum (Semester System)

Fourth Year /Semester II									
No.	Code	Module Name	Units	Semester I			Semester II		
				Th.	E	T	Th.	E	T
1	PRE 417	Enhanced oil recovery II	3				3	---	--
2	PRE 418	Reservoir Simulation	3				2	2	--
3	PRE 413	Petroleum Economic	2				2	---	---
4	PRE 420	Well testing	3.5				2	3	---
5	PRE 421	Petroleum reservoir management	3				2	2	---
<b>Total</b>			14.5				11	7	---
							18		
<b>Total Units</b>						35			