

3.1.1 Study Plan
Plan Study (Multiple Tables, before Bologna)
Oil and Gas Equipment Engineering

First Year, First Semester

No.	Code	Subject	Weeks Hours			Units
			Theo.	Prac.	Tut.	
1	UOT102	Workshops I		6		2
2	UOT100	English Language	2			2
3	EMOG105	Mathematics I	4			4
4	EMOG108	Chemistry	4			4
5	EMOG110	Engineering Mechanics	2			2
6	UOT101	Computer sciences	2	1		2
7	EMOG112	Materials Science & Engineering	2			2
	Summation		16	7		18

First Year, Second Semester

No.	Code	Subject	Weeks Hours			Units
			Theo.	Prac.	Tut.	
1	UOT103	Workshops II		6		2
2	EMOG106	Mathematics II	4			4
3	EMOG107	Physics	4			4
4	EMOG113	Engineering Drawing (Auto CAD)	-	3		1
5	EMOG109	Fundamentals of Electrical Engineering II	2	2		3
6	UOT104	Sport	2			2
7	EMOG111	Introduction of Oil and Gas Equipment	2			2
	Summation		14	11		18

Second Year, First Semester

No.	Code	Subject	Weeks Hours			Units
			Theo.	Prac.	Tut.	
1	UOT201	The crimes of The Baath regime in Iraq	2			2
2	EMOG202	Advanced Mathematics I	4			4
4	EMOG206	Thermodynamic	2	2		3
5	EMOG211	Measurements and Instruments	2	2		3
6	EMOG204	Drilling Systems	2			2
7	EMOG205	Electrical Machines (AC & DC)	2	2		3
8	EMOG208	Electrical and Electronic Circuits	2	2		3
	Summation		16	8		20

Second Year, Second Semester

No.	Code	Subject	Weeks Hours			Units
			Theo.	Prac.	Tut.	
1	UOT200	English Language II	2			2
2	EMOG203	Advanced Mathematics II	4			4
3	EMOG210	Strength of Materials	2	2		3
4	EMOG212	Petroleum and Natural Gas production and Reservoir Systems	2	2		3
5	EMOG207	Fluid Mechanics	2	2		3
6	EMOG209	Digital Electronic	2	2		3
7	EMOG213	Corrosion Engineering	2			2
	Summation		16	8		20

Third Year, First Semester

No.	Code	Subject	Weeks Hours			Units
			Theo.	Prac.	Tut.	
1	EMOG301	Engineering Analysis	4			4
2	EMOG312	Microprocessor and Microcontroller	2	2		3
3	EMOG312	Natural Gas Compression Systems	2			2
4	EMOG305	Control Systems	2	2		3
5	EMOG311	Pressure Vessel and pipes Design	2			2
6	EMOG307	Heat & Mass Transfer	2	2		3
7	EMOG303	C++ programming	2	2		3
	Summation		16	8		20

Third Year, Second Semester

No.	Code	Subject	Weeks Hours			Units
			Theo.	Prac.	Tut.	
1	EMOG302	Numerical Analysis	4			4
2	EMOG313	Oil and Gas Transmission Systems	2			2
3	EMOG310	Digital Signals Processing	2			2
4	EMOG314	Fire and Explosion Control Systems	2			2
5	EMOG308	Machine Theory and Vibration	2	2		3
6	EMOG306	Tribology	2			2
7	EMOG309	Engineering Statistics and Optimization	2			3
	Summation		16	2		18

Fourth Year, First Semester

No.	Code	Subject	Weeks Hours			Units
			Theo.	Prac.	Tut.	
1	UOT400	Engineering Ethics	2			2
2	EMOG401	Design of Gas and Oil Equipment	2			2
3	EMOG405	Hydraulic Systems	2	2		3
4	EMOG409	Pollution Control in Oil and Gas Industry	2			2
5	EMOG410	Industrial Engineering	2			2
6	EMOG407	Automation and Intelligent systems	2			2
Summation			12	2		13

Fourth Year, Second Semester

No.	Code	Subject	Weeks Hours			Units
			Theo.	Prac.	Tut.	
1	EMOG412	Safety and Reliability Engineering	2			2
2	EMOG402	Computer aided Design and Manufacturing (CAD& CAM)	2	2		3
3	EMOG404	Electric drives	2			2
4	EMOG411	Hydrocarbon Flow Assurance Systems	2	2		3
5	EMOG408	Economics of Oil and Gas Industry	2			2
6	EMOG403	Maintenance of Equipment	2			2
7	EMOG406	Project		4		3
Summation			12	8		17

<https://eme.uotechnology.edu.iq/index.php/branches/oil-and-gas-equipment>

Plan Study (Multiple Tables, Bologna Process)

First Year, First Semester

N o.	Module Code	Subject	units				Exam hr/sem	SSWL hr/sem	USSWL hr/sem	SWL hr/sem	ECTS	Model Type
						unit						
			Theo.	Prac.	Tut.							
1	WSHE106	Workshops	-	6	-	2		90	10	100	4	B
2	DEHR105	Democracy and Human Rights	2	-	-	2	3	33	17	50	2	B
3	MATH104	Mathematics I	4	-	-	4	3	63	87	150	6	B
4	CHEM103	Petroleum Chemistry	4	-	-	4	3	63	87	150	6	B
5	ENME102	Engineering Mechanics	2	2	-	2	3	63	62	125	5	C
6	COMP108	Computer	2	1	-	2	3	48	27	75	3	B
7	MSEN101	Materials Science & Engineering	2	-	-	2	3	33	67	100	4	C
			16	9	-	18		393	357	750	30	

First Year, Second semester

No.	Module Code	Subject	units				Exam hr/sem	SSWL hr/sem	USSWL hr/sem	SWL hr/sem	ECTS	Model Type
						unit						
			Theo.	Prac	Tut.							
1	WSHE106	Workshop	-	6	-	2	-	90	10	100	4	B
2	ENLA107	English Language	2	-	-	4	3	33	17	50	2	B
3	MATH109	Mathematics II	4	-	-	4	3	63	87	150	6	B
4	PHYS110	Physics	4	-	-	1	3	63	87	150	6	B
5	FUEE111	Fundamentals of Electrical Engineering	2	2	-	3	3	63	62	125	5	C
6	FATD112	Fundamentals of AutoCAD tools Drawing	-	3	-	2	3	48	27	75	3	S
7	POGE113	Principles of Oil and Gas Equipment	2	-	1	2	3	48	52	100	4	C
			14	11	1	18		408	342	750	30	

Second Year, First Semester

No.	Module Code	Subject	units				Exam hr/sem	SSWL hr/sem	USSWL hr/sem	SWL hr/sem	ECTS	Model Type
						unit						
			Theo.	Prac	Tut							
1	SPRT202	Sports	2		-	2	3	33	17	50	2.00	S
2	ADMT203	Advance Mathematics I	4			4	3	63	87	150	6.00	B
3	DSS204	Drilling and storage systems	2	2	-	3	3	63	62	125	5.00	C
4	THDY205	Thermodynamics	2	2	-	3	3	63	62	125	5.00	C
5	MEIN206	Measurements and Instrumentation	2	2	-	2	3	63	62	125	5.00	C
6	EECI214	Electrical and Electronic Circuits	2	2	-	3	3	63	37	100	4.00	C
7	COMP208	Computer	2	2	-	3	3	63	12	75	3.00	B
		SUM	16	10		20	21	411	339	750	30	

Second Year, Second Semester

No.	Module Code	Subject	units				Exam hr/sem	SSWL hr/sem	USSWL hr/sem	SWL hr/sem	ECTS	Model Type
						units						
			Theo.	Prac	Tut							
1	CBRI201	Crimes of the Baath Regime in Iraq	2		-	2	3	33	17	50	2	B
2	ADMT209	Advance Mathematics II	4		-	4	3	63	87	150	6.	B
3	STEQ210	Storage Equipment	2	2	1	3	3	63	37	100	4	C
4	FLME211	Fluid Mechanics	2	2	-	3	3	63	62	125	5	C
5	STMA212	Strength of Material	2	2	-	3	3	63	62	125	5	C
6	DIEL213	Digital Electronics and Microcontroller	2	2	1	3	3	63	37	100	4	C
7	ENLA207	English Language	2		-	2	3	33	17	50	2	B
8	ARLA204	Arabic Language	2				3	33	17	50	2	B
		SUM	18	8	2	20	21	381	336	750	30	

Third Year, First Semester

No.	Module Code	Subject	units				Exam hr/sem	SSWL hr/sem	USSWL hr/sem	SWL hr/sem	EC TS TS	Model Type
						units						
			Theo.	Prac.	Tut.							
1	ENAN 311	Engineering Analysis	4	-	-	4	3	63	87	150	6	B
2	TRSY 322	Transportation Systems	4	-	-	3	3	63	62	125	5	C
3	DOGE 313	Design of Oil and Gas Equipment I	2	-	-	2	3	33	92	125	5	C
4	CMOS314	Control and monitoring Systems	4	2	-	3	3	93	32	125	5	C
5	HMTR 315	Heat & Mass Transfer	2	2	-	2	3	63	62	125	5	C
6	CORN 316	Corrosion Engineering	2	2	-	3	3	63	37	100	4	C
		SUM	18	6		20	18	378	372	750	30	

Third Year, Second Semester

No.	Module Code	Subject	units				Exam hr/sem	SSWL hr/sem	USSWL hr/sem	SWL hr/sem	ECTS	Model Type
						units						
			Theo.	Prac	Tut							
1	NUAN 321	Numerical Analysis	4			4	3	63	87	150	6	B
2	GCSY 322	Gas Compression System	2			2	3	33	67	100	4	C
3	ELMA 323	Electrical Machines (AC&DC)	2	2		2	3	63	37	100	4	C
4	MTVI 324	Theory of Vibration	2	2		2	3	63	62	125	5	C
5	TRIB 325	Tribology	2			3	3	33	67	100	4	C
6	DSPR 326	Digital Signals Processing	2	2		2	3	63	62	125	5	C
7	ARLA304	Arabic Language	2			3	3	33	17	50	2	B
		SUM	16	6		18	21	351	399	750	30	

Fourth Year, First Semester

No.	Module Code	Subject	units				Exam hr/sem	SSWL hr/sem	USSWL hr/sem	SWL hr/sem	ECTS	Model Type
						units						
			Theo.	Prac	Tut.							
1	DOGE 411	Design of Oil and Gas Equipment II	4	-	-	2	3	63	87	150	6	C
2	HYSY 412	Hydraulic Systems	2	2	-	2	3	63	87	150	6	C
3	SEEN 413	Safety and Environment Engineering	3	-	-	3	3	48	77	125	5	C
4	AISY 414	Automation and Intelligent systems	2	-	1	2	3	48	77	125	5	C
5	ENET 415	Engineering Ethics	2	-	-	2	3	33	67	100	4	S
6	PROJ 416	Project	-	4	-	2	3	63	37	100	4	C
		SUM	13	6	1	13	21	318	432	750	30	

Fourth Year, Second Semester

No.	Module Code	Subject	units				Exam hr/sem	SSWL hr/sem	USSWL hr/sem	SWL hr/sem	ECTS	Model Type
						unit						
			Theo.	Prac	Tut							
1	MAEQ 421	Maintenance of Equipment	2	-	-	2	3	33	67	100	4.00	C
2	CDCM 422	CAD / CAM	2	2	-	3	3	63	87	150	6.00	C
3	ELDR 423	Electric drives	2	-	-	2	3	33	92	125	5.00	C
4	HFAS 424	Hydrocarbon Flow Assurance Systems	2	2	-	3	3	63	87	150	6.00	C
5	IEEC 425	Industrial Engineering & Economics	2	-	-	2	3	33	92	125	5.00	C
6	PROJ 426	Project	-	4	-	2	3	63	37	100	4.00	C
		SUM	10	8	.	14	21	288	462	750	30	