



Republic of Iraq - Ministry of Higher Education and Scientific Research
 University of Baghdad
 Bachelor's degree in Surveying Engineering (First cycle)
 Four years (Eight semesters) - 240 ECTS credits - 1 ECTS = 25 hr
 Program Curriculum (2023 - 2024)



Level	Semester	No.	Module Code	Module Name	Language	SSWL (hr/w)						Exam hr/sem	SSWL hr/sem	USSWL hr/sem	SWL hr/sem	ECTS	Module Type	
						CL (hr/w)	Lect (hr/w)	Lab (hr/w)	Pr (hr/w)	Tut (hr/w)	Semn (hr/w)							
UGI	One	1	UOB 102	English Language -I	English	2						3	33	17	50	2.00	B	
		2	SE 114	Principles in Civil Engineering & Profession Ethics	English	2						3	33	67	100	4.00	S	
		3	SE 111	Mathematics-I	English	3				1		3	63	87	150	6.00	C	
		4	SE 112	Plane Surveying	English	3			3	1		3	108	92	200	8.00	C	
		5	SE 113	Engineering Mechanics	English	3						3	48	77	125	5.00	C	
		6	UOB 103	Computer Hardware & Software	English	1		2				3	48	27	75	3.00	B	
		7	UOB 104	Democracy and Human Rights	English	2						3	33	17	50	2.00	B	
						Total	16	0	2	3	2	0	21	366	384	750	30.00	
					sum	23												
	Two	Two	1	UOB 01	Arabic Language	Arabic	2						3	33	17	50	2.00	B
			2	SE 121	Mathematics-II	English	3				1		3	63	87	150	6.00	C
			3	SE 123	Engineering Drawing By AutoCad	English	1		3				3	63	12	75	3.00	S
			4	SE 124	Engineering Physics	English	2			2			3	63	37	100	4.00	S
			5	SE 122	Applied Surveying	English	3			3	1		3	108	92	200	8.00	C
			6	SE 125	Descriptive Engineering	English	1		3				3	63	12	75	3.00	S
7			SE 126	Principals in Computer Programming	English	2			3			3	78	22	100	4.00	S	
					Total	14	0	6	8	2	0	21	471	279	750	30.00		
				sum	30													

Level	Semester	No.	Module Code	Module Name	Language	SSWL (hr/w)						Exam hr/sem	SSWL hr/sem	USSWL hr/sem	SWL hr/sem	ECTS	Module Type	
						CL (hr/w)	Lect (hr/w)	Lab (hr/w)	Pr (hr/w)	Tut (hr/w)	Semn (hr/w)							
UGII	Three	1	UOB 04	English Language II	English	2						3	33	17	50	2.00	B	
		2	SE 211	Mathematics-III	English	3				1		3	63	87	150	6.00	C	
		3	SE 212	Advanced Surveying	English	2			3			3	78	97	175	7.00	C	
		4	SE 213	Engineering Statistics	English	2				2		3	63	37	100	4.00	C	
		5	UOB 07	Crimes of the defunct Baath Party	Arabic	2						3	33	17	50	2.00	B	
		6	SE 214	Computer Programming I	English	2		3				3	78	22	100	4.00	S	
		7	SE 215	Geomatic Projects	English	2			3			3	78	47	125	5.00	C	
						Total	15	0	3	6	3	0	21	426	324	750	30.00	
					sum	27												
		Semester	No.	Module Code	Module Name	Language	SSWL (hr/w)						Exam hr/sem	SSWL hr/sem	USSWL hr/sem	SWL hr/sem	ECTS	Module Type
							CL (hr/w)	Lect (hr/w)	Lab (hr/w)	Pr (hr/w)	Tut (hr/w)	Semn (hr/w)						
		Four	1	SE 223	Cadastral Surveying	English	1		3				3	63	12	75	3.00	C
			2	SE 221	Mathematics-IV	English	3				1		3	63	87	150	6.00	C
			3	SE 222	Geodetic Networks	English	2			3			3	78	72	150	6.00	C
			4	SE 224	Astronomy and spherical Trigonometry	English	2				2		3	63	62	125	5.00	C
	5		SE 225	Principals in Photogrammetry	English	2		3				3	78	72	150	6.00	C	
	6		SE 226	Computer Programming II	English	2		3				3	78	22	100	4.00	S	
					Total	12	0	9	3	3	0	18	423	327	750	30.00		
				sum	27													

Level	Semester	No.	Module Code	Module Name	Language	SSWL (hr/w)						Exam hr/sem	SSWL	USSWL	SWL	ECTS	Module Type	
						CL (hr/w)	Lect (hr/w)	Lab (hr/w)	Pr (hr/w)	Tut (hr/w)	Semn (hr/w)		hr/sem	hr/sem	hr/sem			
UGIII	Five	1	UOB 05	English Language III	English	2						3	33	17	50	2.00	B	
		2	SE 311	Engineering Analysis & Numerics	English	2				1		3	48	52	100	4.00	S	
		3	SE 313	Engineering Survey	English	2		2	1			3	78	47	125	5.00	C	
		4	SE 314	Adjustment Computations I	English	2		3				3	78	47	125	5.00	C	
		5	SE 315	Engineering Cartography I	English	2		3				3	78	47	125	5.00	C	
		6	SE 312	Engineering Photogrammetry	English	2		3				3	78	47	125	5.00	C	
		7	SE 316	Geospatial Data Analysis	English	2		3				3	78	22	100	4.00	S	
						Total	14	0	14	1	1	0	21	471	279	750	30.00	
					sum	30												
		Semester	No.	Module Code	Module Name	Language	SSWL (hr/w)						Exam hr/sem	SSWL	USSWL	SWL	ECTS	Module Type
							CL (hr/w)	Lect (hr/w)	Lab (hr/w)	Pr (hr/w)	Tut (hr/w)	Semn (hr/w)	hr/sem	hr/sem	hr/sem			
		Six	1	SE 326	AutoCAD Civil 3D	English	1		3				3	63	12	75	3.00	S
			2	SE 322	Engineering Remote Sensing	English	2						3	33	42	75	3.00	C
			3	SE 324	Route Survey	English	2		2	1			3	78	72	150	6.00	C
			4	SE 323	Adjustment Computations II	English	2		3				3	78	72	150	6.00	C
	5		SE 325	Engineering Cartography II	English	2		3				3	78	72	150	6.00	C	
	6		SE 321	Applied Photogrammetry	English	2		3				3	78	72	150	6.00	C	
					Total	11	0	14	1	0	0	18	408	342	750	30.00		
				sum	26													

Level	Semester	No.	Module Code	Module Name	Language	SSWL (hr/w)					Exam hr/sem	SSWL	USSWL	SWL	ECTS	Module Type	
						CL (hr/w)	Lect (hr/w)	Lab (hr/w)	Pr (hr/w)	Tut (hr/w)		Semn (hr/w)	hr/sem	hr/sem			hr/sem
UGIV	Seven	1	SE 415	Map Projections	English	2		3				3	78	47	125	5.00	C
		2	SE 416	Engineering Project I	English	1			3			2	62	38	100	4.00	C
		3	SE 411	Geometric Geodesy	English	2		3				3	78	72	150	6.00	C
		4	SE 413	Global Positioning Systems (GPS)-I	English	2		3				3	78	22	100	4.00	C
		5	SE 412	Close-Range Photogrammetry	English	2			3			3	78	72	150	6.00	C
		6	SE 414	Geospatial Information System (GIS) -I	English	2		2		1		3	78	47	125	5.00	C
						Total	11	0	11	6	1	0	17	452	298	750	30.0
					sum	29											
		Eight	1	UOB 06	English Language IV	English	2					3	33	17	50	2.00	B
	2		SE 425	Engineering Project II	English	1		2				2	47	28	75	3.00	C
	3		SE 421	Geodetic Positioning	English	2		3				3	78	72	150	6.00	C
	4		SE 423	Global Positioning Systems (GPS)-II	English	2			3			3	78	22	100	4.00	C
	5		SE 422	Lidar & Laser Scanning	English	2		2	1			3	78	72	150	6.00	C
	6		SE 424	Geospatial Information System (GIS)-II	English	2		2		1		3	78	22	100	4.00	C
	7		SE 426	Applications in Geospatial Engineering	English	2		3					75	50	125	5.00	S
					Total	13	0	12	4	1	0	17	392	283	750	30.0	
					sum	30											
Total for all modules						106	0	71	32	13	0	154	3409	2516	6000	240.0	

Note: The student should complete 4 weeks of Summer Internships to fulfill the requirements of the Bachelor's degree

Structured SWL (hr/w) type	CL	Class Lecture		B	Basic learning activities		SWL:	Student Workload
	Lab	Laboratory		C	Core learning activity		SSWL:	Structured SWL
	Pr	Practical Training		S	Suport or related learning activity		USSWL:	Unstructured SWL
	Tut	Tutorial		E	Elective learning activity			
	Lect	Online lecture						
	Semn	Seminar						