



Republic of Iraq - Ministry of Higher Education and Scientific Research
 Mosul University
 Bachelor's degree in computer science and mathematic (First cycle)/Software Development
 Four years (Eight semesters) - 240 ECTS credits - 1 ECTS = 25 hr
 Program Curriculum (2023 - 2024)

جمهورية العراق - وزارة التعليم العالي والبحث العلمي

جامعة الموصل

بكالوريوس في علوم الحاسوب والرياضيات (الدورة الأولى) / قسم البرمجيات
 أربع سنوات (ثمانية فصول دراسية) - ٢٤٠ وحدة اوروبية - كل وحدة اوروبية = ٢٥ ساعة
 المنهاج الدراسي للعام ٢٠٢٣-٢٠٢٤



Level	Semester	No.	Module Code	Module Name in English	اسم المادة الدراسية	Language	SSWL (hr/w)					Exam hr/sem	SSWL hr/sem	USSWL hr/sem	SWL hr/sem	ECTS	Module Type	Prerequisite Module(s) Code	
							CL (hr/w)	Lect (hr/w)	Lab (hr/w)	Pr (hr/w)	Tut (hr/w)								Semn (hr/w)
UGI	One	1	UOMCSSW1101	Democracy and Human Rights	الديمقراطية وحقوق انسان	Arabic	2					3	33	17	50	2.00	B		
		2	UOMCSSW1102	Logic design	تصميم منطقي	English	2		2		2	1	3	93	107	200	8.00	C	
		3	UOMCSSW1103	Computer	حاسوب	English	1		2			1	3	48	27	75	3.00	B	
		4	UOMCSSW1104	Discrete Structures	هياكل منقطعة	English	2				2	1	3	63	37	100	4.00	C	
		5	UOMCSSW1105	Algorithms and Structured Programming (1)	خوارزميات وبرمجة مهيكلية (1)	English	2		2		2	1	3	93	107	200	8.00	C	
		6	UOMCSSW1106	Mathematics	الرياضيات	English	2				2	1	3	63	62	125	5.00	S	
							Total	11	0	6	0	8	5	18	393	357	750	30.00	
UGI	Two	1	UOMCSSW1201	Algorithms and Structured Programming (2)	خوارزميات وبرمجة مهيكلية (2)	English	2		2		2	1	3	93	107	200	8.00	C	Algorithms and Structured Programming (1)
		2	UOMCSSW1202	Computer Organization	تنظيم حاسوب	English	2		2		2	1	3	93	107	200	8.00	C	logic design
		3	UOMCSSW1203	Introduction of Statistics and Probability	الاحصاء والاحتمالية	English	2				2	1	3	63	37	100	4.00	S	
		4	UOMCSSW1204	assembly language	لغة التجميع	English	2		2		1	1	3	78	72	150	6.00	C	
		5	UOMCSSW1205	English Language (1)	اللغة الانكليزية	English	2						3	33	17	50	2.00	B	
		6	UOMCSSW1206	Arabic language	اللغة العربية	Arabic	2						3	33	17	50	2.00	B	
							Total	12	0	6	0	7	4	18	393	357	750	30.00	
UGI	Three	1	UOMCSSW2101	Object Oriented Programming (1)	البرمجة الكيائية (1)	English	2		2		1	1	3	78	72	150	6.00	C	
		2	UOMCSSW2102	Software Engineering (1)	هندسة البرمجيات (1)	English	2		2		1	1	3	78	72	150	6.00	C	
		3	UOMCSSW2103	Data Structure (1)	هياكل بيانات (1)	English	2		2		1	1	3	78	72	150	6.00	C	
		4	UOMCSSW2104	Software Systems(1)	انظمة البرمجيات(1)	English	2		2			1	3	63	37	100	4.00	C	
		5	UOMCSSW2105	Database	قواعد البيانات	English	2		2			1	3	63	37	100	4.00	C	
		6	UOMCSSW2106	Numerical Methods	طرق عددية	English	2		2			1	3	63	37	100	4.00	S	
							Total	12	0	12	0	3	6	18	423	327	750	30.00	
UGII	Four	1	UOMCSSW2201	Object Oriented Programming (2)	البرمجة الكيائية (2)	English	2		2		1	1	3	78	72	150	6.00	C	
		2	UOMCSSW2202	Software Engineering (2)	هندسة برامجيات (2)	English	2		2		1	1	3	78	72	150	6.00	C	
		3	UOMCSSW2203	Data Structure (2)	هياكل بيانات (2)	English	2		2		1	1	3	78	72	150	6.00	C	
		4	UOMCSSW2204	Software Systems(2)	انظمة البرمجيات(2)	English	2		2		1	1	3	78	72	150	6.00	C	
		5	UOMCSSW2205	Computability Theory	النظرية الاحتمالية	English	2		2			1	3	63	37	100	4.00	S	
		6	UOMCSSW2206	English Language(2)	اللغة الانكليزية(2)	English	2						3	33	17	50	2.00	B	
							Total	12	0	10	0	4	5	18	408	342	750	30.00	
Level	Semester	No.	Module Code	Module Name in English	اسم المادة الدراسية	Language	SSWL (hr/w)					Exam hr/sem	SSWL hr/sem	USSWL hr/sem	SWL hr/sem	ECTS	Module Type	Prerequisite Module(s) Code	
							CL (hr/w)	Lect (hr/w)	Lab (hr/w)	Pr (hr/w)	Tut (hr/w)	Semn (hr/w)							

Five	1	UOMCSSW3101			English	2		2				3	63	87	150	6.00	C	
	2	UOMCSSW3102			English	2		2				3	63	87	150	6.00	C	
	3	UOMCSSW3103			English	2						3	33	67	100	4.00	C	
	4	UOMCSSW3104			English	2		2				3	63	87	150	6.00	C	
	5	UOMCSSW3105			English	2		2				3	63	87	150	6.00	C	
	6	UOMCSSW3106			English	2						3	33	17	50	2.00	B	
Total						12	0	8	0	0	0	18	318	432	750	30.00		

UGIII	Semester	No.	Module Code	Module Name in English	اسم المادة الدراسية	Language	SSWL (hr/w)						Exam hr/sem	SSWL hr/sem	USSWL hr/sem	SWL hr/sem	ECTS	Module Type	Prerequisite Module(s) Code
							CL (hr/w)	Lect (hr/w)	Lab (hr/w)	Pr (hr/w)	Tut (hr/w)	Semn (hr/w)							
Six	1	UOMCSSW3101			English	2		2				3	63	87	150	6.00	C		
	2	UOMCSSW3102			English	2		2				3	63	87	150	6.00	C		
	3	UOMCSSW3103			English	2		2				3	63	87	150	6.00	C		
	4	UOMCSSW3104			English	2		2				3	63	87	150	6.00	C		
	5	UOMCSSW3105			English	2		2				3	63	87	150	6.00	C		
	6																		
Total						10	0	10	0	0	0	15	315	435	750	30.00			

Level	Semester	No.	Module Code	Module Name in English	اسم المادة الدراسية	Language	SSWL (hr/w)						Exam hr/sem	SSWL hr/sem	USSWL hr/sem	SWL hr/sem	ECTS	Module Type	Prerequisite Module(s) Code
							CL (hr/w)	Lect (hr/w)	Lab (hr/w)	Pr (hr/w)	Tut (hr/w)	Semn (hr/w)							
Seven	1	UOMCSSW4101			English	2		2				3	63	87	150	6.00	C		
	2	UOMCSSW4102			English	2						3	33	67	100	4.00	C		
	3	UOMCSSW4103			English	2		2		1		3	78	122	200	8.00	C		
	4	UOMCSSW4104			English	2		2		1		3	78	122	200	8.00	C		
	5	UOMCSSW4105			English	2						3	33	17	50	2.00	C		
	6	UOMCSSW4106			English	2						3	33	17	50	2.00	B		
Total						12	0	6	0	2	0	18	318	432	750	30.0			

UGIV	Semester	No.	Module Code	Module Name in English	اسم المادة الدراسية	Language	SSWL (hr/w)						Exam hr/sem	SSWL hr/sem	USSWL hr/sem	SWL hr/sem	ECTS	Module Type	Prerequisite Module(s) Code
							CL (hr/w)	Lect (hr/w)	Lab (hr/w)	Pr (hr/w)	Tut (hr/w)	Semn (hr/w)							
Eight	1	UOMCSSW4201			English	2		2				3	63	87	150	6.00	C		
	2	UOMCSSW4202			English	2						3	33	17	50	2.00	C		
	3	UOMCSSW4203			English	2		2				3	63	87	150	6.00	C		
	4	UOMCSSW4204			English	2						3	33	67	100	4.00	E		
	5	UOMCSSW4205			English	2		2				3	63	87	150	6.00	C		
	6	UOMCSSW4206			English							3	33	117	150	6.00	C		
Total						10	0	6	0	0	0	18	288	462	750	30.0			

Total 91 0 64 0 24 20 141 2856 3144 6000 240.0 **Must be 240 ECTS**

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
	Lab	Laboratory
	Pr	Practical Training
	Tut	Tutorial
	Lect	Online lecture
	Semn	Seminar

Module type	B	Basic learning activities
	C	Core learning activity
	S	Support or related learning activity
	E	Elective learning activity

SWL:	Student Workload
SSWL:	Structured SWL
USSWL:	Unstructured SWL



Note: Columns O, Q and R are programmed, protected and should not be edited