



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

جمهورية العراق - وزارة التعليم العالي والبحث العلمي
 جامعة الفراهيدي
 بكالوريوس في هندسة تقنيات الاتصالات (الدورة الأولى)
 أربع سنوات (ثمانية فصول دراسية) - ٢٤٠ وحدة ائتمانية - كل وحدة ائتمانية = ٢٥ ساعة
 المنهاج الدراسي للعام ٢٠٢٣-٢٠٢٤



Level	Semester	No.	Module Code	Module Name in English	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		English 1	English	1					3	18	32	50	2	S		
		2		IT Essentials	English	2			0		3	63	37	100	4	B		
		3		Calculus 1	English	3		2			3	63	62	125	5	B		
		4		DC electrical circuits	English	3		2		1	3	93	82	175	7	C		
		5		physics and semi conductor	English	3		2		1	3	93	82	175	7	C		
		6		Engineering Drawing	English	3		4	0		3	59	66	125	5	S		
					Total	12	0	10	0	3	0	18	389	361	750	30.00		
UGI	Two	1		Human Rights and Democracy	Arabic	1					3	18	32	50	2.00	S		
		2		Calculus 2	English	3			0	1	3	63	62	125	5.00	B		
		3		AC Electrical Circuits	English	2		2			3	63	62	125	5.00	B		
		4		Digital Logic	English	3		2		1	3	93	82	175	7.00	C		
		5		Electronic Circuits	English	4		2		1	3	108	92	200	8.00	C		
		6		Engineering Workshops	English	4			3		3	48	27	75	3.00	B		
					Total	13	0	6	3	3	0	18	393	357	750	30.00		
UGII	Three	1		Electronic Circuits Design	English	2		2		1		3	78	72	150	6.00	B	
		2		SIGNALS AND SYATEMS	English	3		2		0		3	78	72	150	6.00	C	
		3		Electromagnetic Fields 1	English	2				1		3	48	52	100	4.00	C	
		4		Calculus 3	English	3				1		3	63	62	125	5.00	B	
		5		Digital Circuits Design	English	3		2				3	78	72	150	6.00	C	
		6		Visaul Basic	English	1		2				3	48	27	75	3.00	B	
					Total	14	0	8	0	3	0	18	393	357	750	30.00		
UGII	Four	1		C++	English	2		2				60	65	125	5.00	B		
		2		Calculus 4	English	3				1		3	63	62	125	5.00	B	
		3		English 2	English	1						15	35	50	2.00	S		
		4		ANALOG COMMUNICATIONS	English	4		2		1			105	95	200	8.00	C	
		5		probability and Statistics	English	3		2					75	50	125	5.00	B	
		6		Electromagnetic Fields 2	English	3				1		3	63	62	125	5.00	C	
					Total	16	0	6	0	3	0	6	381	369	750	30.00		
UGII	Five	1		ENGINEERING ANALYSIS		3				1		60	65	125	5	B		
		2		MICROPROCESSOR		3		2		1		90	60	150	6	B		
		3		ANTENNA		2		2		1		75	75	150	6	C		
		4		DIGITAL COMMUNICATION		2		2				60	90	150	6	C		
		5		ENGINEERING ETHICS		2						75	0	75	3	C		
		6		Matlab		2		2				60	40	100	4	B		
					Total	14	0	8	0	3	0	0	420	330	750	30.00		

UGIII	Semester	No.	Module Code	Module Name in English	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			NUMERICAL ANALYSIS		3				1		60	65	125	5	B		
	2			Information Theory		2				1		45	55	100	4	C		
	3			DIGITAL SIGNAL PROCESSING		2		2		1		75	75	150	6	C		
	4			fundamental of optical fiber		2		2				60	65	125	5	C		
	5			Python Programing		2		2				60	65	125	5	B		
	6			Electronics of Communications		2		2		1		75	50	125	5	S		
					Total	13	0	8	0	4	0	0	375	375	750	30.00		
Level	Semester	No.	Module Code	Module Name in English	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			Computer Networks		3		2		1		90	85	175	7	C		
	2			Programming logic controller		2		2		1		75	75	150	6	C		
	3			Optical Communication		2		2		1		75	75	150	6	C		
	4			Research Methodology		2						30	20	50	2	B		
	5			Control		2		2		1		75	75	150	6	B		
	6			Engineering Mangement		2						30	45	75	3	C		
					Total	13	0	8	0	4	0	0	375	375	750	30		
UGIV	Semester	No.	Module Code	Module Name in English	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			Microcave Engineering		2		2		1		3	81	69	150	6	C	
	2			Satalite Communication		2				1		45	55	100	4	B		
	3			COMMUNICATION SECURITY		2				1		45	55	100	4	C		
	4			WIRELESS COMMUNICATIONS		2						30	45	75	3	C		
	5			Final Project				6	6			180	145	325	13	C		
	6																	
				Total	8	0	8	6	3	0	3	381	369	750	30			
						Total	103	0	62	9	26	0	63	3107	2893	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			Module type	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			Note: Columns O, Q and R are progrmaed, protected and should not be edited														