



**Communication & Computer Engineering -**

**2021-2022**

**First Year (Bologna Process)**

**1<sup>st</sup> Semester**

No.	Code	Module Title	CL (hr/w)	L (hr/w)	P (hr/w)	T (hr/w)	ECTS	Units	Type
1	CUE41001	Electrical Circuit Analysis I	2	2			5.00	3	S
2	CUE41002	Programming Fundamentals & Algorithms		4			5.00	2	S
3	CUE61001	General English	2		6		5.00	5	B
4	CUE68001	Calculus	2			2	5.00	3	B
5	CUE82001	Academic Debate	3				5.00	3	B
6	CUE31001	Computer Skills		4			5.00	2	B
<b>TOTAL</b>			<b>9</b>	<b>10</b>	<b>6</b>	<b>2</b>	<b>30.00</b>	<b>18</b>	

**2<sup>nd</sup> Semester**

No.	Code	Module Title	CL (hr/w)	L (hr/w)	P (hr/w)	T (hr/w)	ECTS	Units	Type
1	CUE41013	Matlab Programming		4			4.00	2	C
2	CUE41012	Engineering Mathematics	4				5.00	4	S
3	CUE41011	Electrical Circuit Analysis II	2	2		1	5.00	3	S
4	CUE41014	Electronic Workshop		1			1.00	0	S
5	CUE66001	Kurdistan Studies	3				5.00	3	B
	CUE66002	Kurdish Language							
6	CUE31002	Academic Computing			4		5.00	2	B
<b>TOTAL</b>			<b>11</b>	<b>11</b>	<b>6</b>	<b>1</b>	<b>30</b>	<b>19</b>	



Kurdistan Region-Iraq

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## Communication & Computer Engineering Curriculum

2020-2021

Second Year (Bologna Process)

3<sup>rd</sup> Semester

No.	Code	Module Title	CL (hr/w)	L (hr/w)	P (hr/w)	T (hr/w)	ECTS	Units	Type
1	CUE41024	Advanced Engineering Mathematics I	4				5.00	4	C
2	CUE41021	Communication Theory I	2	2			5.00	3	C
3	CUE41026	Digital Techniques	2	2		1	5.00	3	S
4	CUE41025	Microcontrollers and Microprocessors	2	2		1	5.00	3	S
5	CUE41023	Electronic Circuit Analysis I	2	2			5.00	3	S
6	CUE41022	Electromagnetic Fields I	2				3.00	2	S
7	CUE30034	Communication Skills	2				2.00	2	B
<b>TOTAL</b>			<b>16</b>	<b>8</b>	<b>0</b>	<b>2</b>	<b>30</b>	<b>20</b>	

4<sup>th</sup> Semester

No.	Code	Module Title	CL (hr/w)	L (hr/w)	P (hr/w)	T (hr/w)	ECTS	Units	Type
1	CUE41034	Advanced Engineering Mathematics II	4				5.00	4	C
2	CUE41035	Signal Processing and systems	2	2			5.00	3	C
3	CUE41031	Communication Theory II	2	2			5.00	3	C
4	CUE41037	Mathcad and Simulation		2			2.00	1	C
5	CUE41033	Electronic Circuit Analysis II	2	2			5.00	3	S
6	CUE41032	Electromagnetic Fields II	2			1	4.00	2	S



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7	CUE41036	Probability and Random Variables	2			1	4.00	2	S
<b>TOTAL</b>			<b>14</b>	<b>8</b>	<b>0</b>	<b>2</b>	<b>30</b>	<b>18</b>	

### Communication & Computer Engineering Curriculum

2020-2021

Third Year

5<sup>th</sup> Semester

No.	Code	Module Title	CL (hr/w)	L (hr/w)	P (hr/w)	T (hr/w)	ECTS	Units	Type
1	CUE41046	Microwave Engineering	4	2			6.00	5	C
2	CUE41041	Digital Communication I	2	2			5.00	3	C
3	CUE41043	Antenna & Wave Propagation I	2	2			5.00	3	C
4	CUE41044	Digital Signal Processing I	2	2			5.00	3	C
5	CUE41045	Data Communication I	2	2			5.00	3	C
6	CUE41042	Information Theory & Coding	2			1	4.00	2	C
<b>TOTAL</b>			<b>14</b>	<b>10</b>	<b>0</b>	<b>1</b>	<b>30</b>	<b>19</b>	

6<sup>th</sup> Semester

No.	Code	Module Title	CL (hr/w)	L (hr/w)	P (hr/w)	T (hr/w)	ECTS	Units	Type
1	CUE41051	Control Engineering & Intelligent Systems	2	2		1	5	3	E
2	CUE41052	Digital Communication II	2	2			5	3	C
3	CUE41053	Antenna & Wave Propagation II	2	2			5	3	C
4	CUE41054	Digital Signal Processing II	2	2			5	3	C
5	CUE41055	Data Communication II	2	2			5	3	C
6	CUE41056	Computer Architecture	2			1	3	2	C



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7	CUE41057	Research Methods	2			1	2	2	S
<b>TOTAL</b>			<b>14</b>	<b>10</b>	<b>0</b>	<b>3</b>	<b>30</b>	<b>19</b>	

**Communication & Computer Engineering Curriculum  
2020-2021  
Fourth Year**

**7<sup>th</sup> Semester**

No.	Code	Module Title	CL (hr/w)	L (hr/w)	P (hr/w)	T (hr/w)	ECTS	Units	Type
1	CUE41061	Computer Networks	4	2			6	3	C
2	CUE41062	Image Processing & Multimedia	4	2			6	3	E
3	CUE41063	Mobile Communication Systems I	2	2			5	3	C
4	CUE41064	Optical Communication I	2	2			5	3	C
5	CUE41065	Satellite Communication I	2	2			5	3	C
6	CUE41080	Graduation Project			2		3	1	C
<b>TOTAL</b>			<b>14</b>	<b>10</b>	<b>2</b>	<b>0</b>	<b>30</b>	<b>16</b>	

**8<sup>th</sup> Semester**

No.	Code	Module Title	CL (hr/w)	L (hr/w)	P (hr/w)	T (hr/w)	ECTS	Units	Type
1	CUE41071	Radar Engineering	4	2			7	5	C
2	CUE41072	Mobile Communication Systems II	2	2			5	3	C
3	CUE41073	Optical Communication II	2	2			5	3	C
4	CUE41074	Satellite Communication II	2	2			5	3	C
5	CUE41075	Secure Communication	4				5	4	C



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6	CUE41080	Graduation Project			2		3	1	C
<b>TOTAL</b>			<b>14</b>	<b>8</b>	<b>2</b>	<b>0</b>	<b>30</b>	<b>19</b>	

Total CL (Class Lecture)	106	Total ECTS of C (Core)	149 (62.1%)
Total L (Laboratory)	75	Total ECTS of S (Support)	54 (22.5%)
Total P (Practical Training)	16	Total ECTS of B (Basic)	37 (15.4%)
Total T (Tutorial)	11	. Total ECTS	= 240 Total
Total ECTS of E (Elective)	11	Total Units	148