

**Al-Kitab University**  
**College of Engineering Technology**  
**Department of Computer Engineering Techniques**

**Syllabus**  
**Academic Year 2022 – 2023**

<b>First Year – General</b>							
#	Course Code	Course Title	Weekly Hours			Credit Hours	Course Type
			Theory	Practical	Total		
1	CTE02100	Human Rights and Democracy	2	-	2	4	Assist
2	CTE02102	Mathematics ( 1 )	T1+2	-	3	4	Assist
3	CTE02103	Engineering Drawing	-	3	3	3	Core
4	CTE02104	Workshop	-	4	4	4	Core
5	CTE02105	Electrical Engineering Fundamentals	T1+2	3	6	7	Core
6	CTE02106	Computer Organization	2	2	4	6	Core
7	CTE02107	Computer programming & applications	2	3	5	7	Assist
8	CTE02108	Digital Electronics	1T+2	2	5	6	Core
9	EIS05100	Arabic Language	1	-	1	2	Assist
10	ENG05100	English Language 1	1	-	1	2	Assist
		<b>Total</b>	<b>14+3T</b>	<b>17</b>	<b>34</b>	<b>45</b>	

**Second Year – General**

#	Course Code	Course Title	Weekly Hours			Credit Hours	Course Type
			Theory	Practical	Total		
			1	CTE02207	Computer Application		
2	CTE02202	Mathematics (II)	1T+2	-	3	4	Assist
3	CTE02203	Microprocessor and computer Architecture	2	3	5	7	Core
4	CTE02204	Instrumentation and Measurements	2	2	4	6	Core
5	CTE02205	Computer programming (II )	2	2	4	6	Core
6	CTE02206	Communication Fundamentals	1T+2	2	5	6	Core
7	CTE02208	Electronics	2	2	4	6	Core
8	ENG05200	English Language 2	1	-	1	2	Assist
9	CTE02250	Training	-	-	-	-	Satisfaction
		<b>Total</b>	<b>14+2T</b>	<b>13</b>	<b>29</b>	<b>41</b>	

Third Year - Electronics							
#	Course Code	Course Title	Weekly Hours			Credit Hours	Course Type
			Theory	Theory	Theory		
			1	CTE02310	Computer Networks Simulators		
2	CTE02302	Engineering Analysis	2	2	4	6	Assist
3	CTE02303	Control Engineering Fundamentals	2	2	4	6	Core
4	CTE02304	Computer Networks Fundamentals	2	2	4	6	Core
5	CTE02305	Real Time systems Design	2	2	4	6	Core
6	CTE02306	Digital Signal Processing	2	2	4	6	Core
7	CTE02307	Digital Communication	2	2	4	6	Core
8	CTE023xx	Elective Course	2	2	4	6	Core
9	ENG05300	English Language 3	1	-	1	2	Assist
10	CTE02350	Training					Satisfaction
		<b>Total</b>	<b>15</b>	<b>16</b>	<b>31</b>	<b>46</b>	<b>-----</b>

Third Year – Communications and Networks							
#	Course Code	Course Title	Weekly Hours			Credit Hours	Course Type
			Theory	Theory	Theory		
			1	CTE02301	Electronic Systems Simulators		
2	CTE02302	Engineering Analysis	2	2	4	6	Assist
3	CTE02303	Control Engineering Fundamentals	2	2	4	6	Core
4	CTE02309	Power Electronic	2	2	4	6	Core
5	CTE02305	Real Time Systems Design	2	2	4	6	Core
6	CTE02306	Digital Signal Processing ( DSP )	2	2	4	6	Core
7	CTE023xx	Elective Course	2	2	4	6	Core
8	CTE02308	Digital Controllers	2	2	4	6	Core
9	ENG05300	English Language 3	1	-	1	2	Assist
10	CTE02350	Training	-	-	-	-	Satisfaction
		<b>Total</b>	<b>15</b>	<b>16</b>	<b>31</b>	<b>46</b>	<b>-----</b>

<b>Fourth Year - Electronics</b>							
#	Course Code	Course Title	Weekly Hours			Credit Hours	Course Type
			Theory	Theory	Theory		
			1	CTE02409	Smart Systems Modeling		
2	CTE02431	Advanced Computer Technology	2	2	4	6	Core
3	CTE02432	Computer Interface Circuits Design	2	2	4	6	Core
4	CTE02433	Advanced Digital Electronics	2	2	4	6	Core
5	CTE02405	Project Management	2	2	4	6	Core
6	CTE02434	Computer Networks	2	2	4	6	Core
7	CTE024xx	Elective Course	2	2	4	6	Core
8	ENG05400	English Language 4	1	-	1	2	Assist
9	CTE02413	Project	-	4	4	4	Core
		<b>Total</b>	<b>14</b>	<b>18</b>	<b>32</b>	<b>46</b>	

<b>Fourth Year – Communications and Networks</b>							
#	Course Code	Course Title	Weekly Hours			Credit Hours	Course Type
			Theory	Theory	Theory		
			1	CTE02401	Computer Networks Protocols		
2	CTE02402	Information Theory and Coding	2	2	4	6	Core
3	CTE02403	Mobile Communication	2	2	4	6	Core
4	CTE02404	Security of Computer and Networks	2	2	4	6	Core
5	CTE02405	Project Management	2	2	4	6	Core
6	CTE02406	Multimedia Computing	2	2	4	6	Core
7	CTE024xx	Elective Course	2	2	4	6	Core
8	ENG05400	English Language 4	1	-	1	2	Assist
9	CTE02413	Project	-	4	4	4	Core
		<b>Total</b>	<b>14</b>	<b>18</b>	<b>32</b>	<b>46</b>	

**Optional Courses**

#	Course Code	Course Title	Prerequisite		Credit Hours
			Level	Discipline	
1	CTE02311	Artificial intelligence and expert systems	Third	Communications and Networks	6
2	CTE02312	Digital Systems design	Third	Communications and Networks	6
3	CTE02313	Database Systems	Third	Communications and Networks	6
4	CTE02308	Digital Controllers	Third	Communications and Networks	6
5	CTE02307	Digital Communication	Third	Electronics	6
6	CTE02314	Digital Systems design	Third	Electronics	6
7	CTE02315	Computer Aided Design	Third	Electronics	6
8	CTE02407	Fiber Optics Communications	Fourth	Communications and Networks	6
9	CTE02431	Advanced Computer Technology	Fourth	Communications and Networks	6
10	CTE02433	Advanced Digital Electronics	Fourth	Communications and Networks	6
11	CTE02408	Technologies Modern Networks	Fourth	Communications and Networks	6
12	CTE02410	Image Processing	Fourth	Electronics	6
13	CTE02411	Systems Automations	Fourth	Electronics	6
14	CTE02406	Multimedia Computing	Fourth	Electronics	6
15	CTE02412	Intelligent Control of Robots	Fourth	Electronics	6