



## First Year

### First Semester

Subject		Hrs./week			Units
		Theo.	Tut.	Lab.	
C.E 1203	Engineering Mechanics (1)	3	1		3
C.E 1201	Mathematics (I)	3	1		3
C.E 1211	Building Materials Technology (1)	2		1	3
C.E 1207	Engineering Drawing (1)	1		3	2
C.E 1209	Engineering Geology (1)	1	1		1
C.E 1211	Fundamental of Computer Science	1		2	2
C.E 1206	Physics	1	1		1
C.E 1103	*Human Rights	1	1		1
C.E 1107	*English Language	2			2
C.E 1104	Workshops I	1		3	2
<b>Total</b>		<b>16</b>	<b>5</b>	<b>9</b>	<b>20</b>
		<b>30</b>			

### Second Semester

Subject		Hrs./week			Units
		Theo.	Tut.	Lab.	
C.E 1204	Engineering Mechanics (2)	3	1		3
C.E 1202	Mathematics (2)	3	1		3
C.E 1212	Building Materials Technology (2)	2		1	3
C.E 1208	Engineering Drawing (2)	1		3	2
C.E 1210	Engineering Geology (2)	1	1		1
C.E 1213	Civil Eng. Fundamental	2			2
C.E 1205	Chemistry	1	1	1	2
C.E 1102	*Public Freedom and Democracy	1	1		1
C.E 1106	*Arabic Language	1	1		1
C.E 1105	Workshops II	1		3	2
<b>Total</b>		<b>16</b>	<b>6</b>	<b>8</b>	<b>20</b>
		<b>30</b>			

\* Modified course



**Second Year**  
**First Semester**

Subject		Hrs./week			Units
		Theo.	Tut.	Lab.	
C.E 2220	Strength of Materials (1)	3	1		3
C.E 2218	Concrete Technology (1)	2		2	3
C.E 2222	Fluid Mechanics (1)	2	1	1	3
C.E 2216	Engineering Surveying (1)	2		2	3
C.E 2214	Mathematics (3)	3	1		3
C.E 2227	*Building Construction (I)	1	2	1	2
C.E 2224	Computer Aided Eng. Drawing	1		2	2
C.E 2108	English Technical Language	2			2
<b>Total</b>		<b>16</b>	<b>5</b>	<b>8</b>	<b>21</b>
		<b>29</b>			

**Second Semester**

Subject		Hrs./week			Units
		Theo.	Tut.	Lab.	
C.E 2221	Strength of Materials (2)	3	1		3
C.E 2219	Concrete Technology (2)	2		2	3
C.E 2223	Fluid Mechanics (2)	2	1	1	3
C.E 2217	Engineering Surveying (2)	2		2	3
C.E 2215	Mathematics (2)	3	1		3
C.E 2371	*Digital Mapping	1	2	1	2
C.E 2225	Computer Programming	1		2	2
C.E 2226	Engineering Statistics	2	1		2
<b>Total</b>		<b>16</b>	<b>6</b>	<b>8</b>	<b>21</b>
		<b>30</b>			

\* Modified course



## Third Year

### First Semester

Subject		Hrs./week			Units
		Theo.	Tut.	Lab.	
C.E 3228	Soil Mechanics (I)	2	2	1	3
C.E 3233	*Theory of Structures (I)	2	1		2
C.E 3231	Engineering Analysis	2	2		2
C.E 3234	Reinforced Concrete Design (I)	2	1		2
C.E 3372	Analytical Photogrammetry (I)	1	1	1	2
C.E 3235	*Principles of Remote Sensing (I)	1	2	1	2
C.E 3239	Sanitary and Environmental Eng. (I)	1	1	1	2
C.E 3374	Land Surveying (I)	1		1	2
C.E 3109	English Language Essay Writing	2			2
C.E 3110	Leadership and Management Skills	1	1		1
<b>Total</b>		<b>15</b>	<b>11</b>	<b>5</b>	<b>20</b>
		<b>31</b>			

### Second Semester

Subject		Hrs./week			Units
		Theo.	Tut.	Lab.	
C.E 3229	*Soil Mechanics (II)	2	1	1	3
C.E 3230	Highway Engineering	2	1	2	3
C.E 3237	Reinforced Concrete Design (II)	2	1		2
C.E 3241	*Theory of Structures (II)	2	1		2
C.E 3232	*Numerical Analysis	2	1		2
C.E 3238	Building Services (I)	2			2
C.E 3240	Sanitary and Environmental Eng. (II)	1	1	1	2
C.E 3236	*Principles of Remote Sensing (II)	1	2		1
C.E 3373	Analytical Photogrammetry (II)	1	1	1	2
C.E 3375	*Land Surveying (II)	1	1	1	2
<b>Total</b>		<b>16</b>	<b>10</b>	<b>6</b>	<b>21</b>
		<b>32</b>			

\* Modified Course

## Fourth Year

### First Semester

Subject		Hrs./week			Units
		Theo.	Tut.	Lab.	
C.E 4244	Foundation Engineering (1) (1) هندسة الاسس	2	2		2
C.E 4242	Steel Design (1) (1) تصميم حديد	2	1		2
C.E 4376	Geodesy جيوديسي	2	1		2
C.E 4378	Geographical Information System (1) نظم المعلومات الجغرافية (1)	1	1	1	2
C.E 4246	Quantity Surveying المسح الكمي	2	1		2
C.E 4241	Engineering Economy (1) (1) الاقتصاد الهندسي	2			2
C.E 4380	Spatial Data Adjustment (1) (1) تعديل بيانات مكانية	1	1		1
C.E 4374	Land Surveying Computations (1) حسابات المساحة الارضية (1)	1	1		1
C.E 4110	Writing an English Technical Report; كتابة التقرير الفني باللغة الانكليزية	2			2
C.E 4248	Graduation Project of 1 <sup>st</sup> Semester المشروع الهندسي الفصل الاول	2		4	3
<b>Total</b>		<b>17</b>	<b>8</b>	<b>5</b>	<b>19</b>
		<b>30</b>			

### Second Semester

Subject		Hrs./week			Units
		Theo.	Tut.	Lab.	
C.E 4245	Foundation Engineering (2) (2) هندسة الاسس	2	2		2
C.E 4247	Eng. Managements and Specifications المواصفات والادارة الهندسية	2	1		2
C.E 4377	Geodetic Positioning with GNSS GNSS الموقع الجيوديسي مع	2		1	3
C.E 4382	Urban Planning تخطيط حضري	3			3
C.E 4379	Geographical Information System (2) نظام (2) المعلومات الجغرافية (02)	1	1	1	2
C.E 4381	Spatial Data Adjustment (2) تعديل بيانات مكانية (02)	1	1		1
C.E 4375	Land Surveying Computations (2) حسابات المساحة الارضية (2)	1	1		1
C.E 4243	Computer Applications تطبيقات الحاسوب	1	1	2	2
C.E 4249	Graduation Project of 2 <sup>nd</sup> Semester المشروع الهندسي الفصل الثاني	2		4	3
<b>Total</b>		<b>15</b>	<b>7</b>	<b>8</b>	<b>19</b>
		<b>30</b>			

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**Ministry of Higher Education and Scientific Research  
University of Technology  
Civil Engineering Department  
Geomatic Engineering Division  
Undergraduate Study Syllabus 2018-2019**

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