

**DIPLOMA PROGRAM**  
**CIVIL TECHNOLOGY**  
**2014-2015**

## CURRICULUM FOR DIPLOMA IN CIVIL TECHNOLOGY

<b>Diploma in Civil Technology</b>									
C - Credit Hours, L -Credit Lecture, P - Credits Practical									
Fall Semester					Spring Semester				
CODE	COURSE	C	L	P	CODE	COURSE	C	L	P
<b>Year 1</b>									
CHEM107	Fundamentals of Chemistry	4	3	1	MATH211	Calculus I	4	3	1
MATH116	Pre-Calculus	4	3	1	ARAB101	Arabic Language-II	3	3	0
ENGL150	English Language I	3	3	0	ENGL152	English Language II	3	3	0
ARAB100	Arabic Language I	3	3	0	PHYS101	General Physics-I	4	3	1
ENGN103	Engineering Drawing	2	1	1	ENGN101	Introduction to Engineering	2	2	0
		<b>16</b>	<b>13</b>	<b>3</b>			<b>16</b>	<b>14</b>	<b>2</b>
CODE	COURSE	C	L	P	CODE	COURSE	C	L	P
<b>Year 2</b>									
CIVL211	Statics	3	3	0	CIVL216	Dynamics	2	2	0
CIVL214	Geomatic Engineering	3	2	1	CIVL212	Civil Engineering Materials	3	2	1
ENGL155	Communication Skill	3	3	0	CIVL213	Fluid Engineering Mechanics	3	2	1
COMP101	Computer Skills	3	2	1	CIVL215	Civil Engineering Drawing	2	0	2
MATH212	Calculus II	3	2	1	CIVL221	Solid Mechanics	3	3	0
		<b>15</b>	<b>12</b>	<b>3</b>			<b>13</b>	<b>9</b>	<b>4</b>
<b>Year 3</b>									
HIST150	Islamic Civilization	3	3	0	CIVL323	Structural Design I	3	3	0
CIVL241	Environmental Engineering	3	3	0	CIVL441	Water and Wastewater Engineering	3	2	1
CIVL321	Structural Analysis I	3	2	1	CIVL451	Highway Engineering I	3	3	0
CIVL332	Geotechnical Engineering-I	4	3	1	CIVL462	Construction methods and Estimation	3	2	1
CIVL342	Hydrology and Hydraulics	3	3	0					
		<b>16</b>	<b>14</b>	<b>2</b>			<b>12</b>	<b>10</b>	<b>2</b>
<b>Total No. of Credits</b>							<b>88</b>		

## Curriculum for Diploma in Civil Technology

<b>Minimum number of credits for graduation in this degree plan = 88</b>				
No.	Course code	Course	Credit	Pre-requisite
<b>University requirements = 21 Credits</b>				
1	ARAB100	Arabic Language-I	3(3+0)	None
2	ARAB101	Arabic Language-II	3(3+0)	ARAB100
3	COMP101/L	Computer Skill	3(2+1)	Comp-A, Comp-B (Digital Literacy)
4	ENGL150	English Language-I	3(3+0)	None
5	ENGL152	English Language-II	3(3+0)	ENGL150
6	ENGL155	Communication Skill	3(3+0)	ENGL152
7	HIST150	Islamic Civilization	3(3+0)	None
<b>College requirements = 12 Credits</b>				
2	ENGN101	Introduction to Engineering	2(2+0)	MATH116
3	ENGN103	Engineering Drawing	2(1+1)	None
5	MATH116	Pre Calculus	4(3+1)	None
6	MATH211	Calculus-I	4(3+1)	MATH116
<b>Department requirement: core courses = 55 Credits</b>				
No.	Code	Course	Credit	Pre-Requisite
1.	MATH212	Calculus-II	3(2+1)	MATH211
2.	CHEM107/L	Fundamentals of Chemistry	4(3+1)	None
3.	PHYS101/L	General Physic-I	4(3+1)	MATH116

4.	CIVL211	Statics	3(3+0)	PHYS101/L
5.	CIVL212	Civil Engineering Materials	3(2+1)	CHEM107/L,CIVL211
6.	CIVL214	Geomatic Engineering	3(2+1)	ENGN101,MATH211
7.	CIVL215	Civil Engineering Drawing	2(0+2)	ENGN103
8.	CIVL216	Dynamics	2(2+0)	CIVL211
9.	CIVL221	Solid Mechanics	3(3+0)	CIVL211,CIVL212
10.	CIVL321	Structural Analysis-I	3(2+1)	CIVL 221, CIVL216,MATH211
11.	CIVL323	Structural Design-I	3(3+0)	CIVL321,CIVL212 CIVL215
12.	CIVL332	Geotechnical Engineering-I	4(3+1)	CIVL221,MATH212
13.	CIVL213	Fluid Engineering Mechanics	3(2+1)	MATH211, CIVL211
14.	CIVL241	Environmental Engineering	3(3+0)	CHEM107/L,PHYS101/L
15.	CIVL342	Hydrology and Hydraulics	3(3+0)	CIVL213 ,MATH212
16.	CIVL441	Water and Wastewater Engineering	3(2+1)	CIVL241
23.	CIVL451	Highway Engineering-I	3(3+0)	CIVL214
24.	CIVL462	Construction methods and Estimation	3(2+1)	CIVL212, CIVL215