

## BSCE program study plan.

No	Course ID	Course Name	Credit Hours (Cr. Hr.)	Lec-Lab-Tut Hours	Pre-requisites
<b>First Year First Semester</b>			<b>17</b>		
1	MTH121	Engineering Mathematics I	3	3-0-2	-----
2	PHY121	Engineering Physics I	4	3-2-2	-----
3	CHE101	Chemistry for Engineers	3	2-2-2	-----
4	ARB111	Comm. Skills in Arabic Lang.	3	3-0-0	-----
5	CIE101	Introduction to Civil Engineering	1	1-0-1	-----
6	ISL114	Islamic Culture	3	3-0-1	-----
<b>First Year Second Semester</b>			<b>19</b>		
1	MTH122	Engineering Mathematics II	3	3-0-2	MTH121
2	PHY122	Engineering Physics II	4	3-2-2	PHY121
3	CIE 102	Report Writing and Presentation	3	3-0-1	-----
4	COM111	IT Fundamentals	3	2-2-0	-----
5	CIE 112	Civil Engineering Drawing*	3	1-4-0	-----
6	ENV111	Environmental Science	3	3-0-0	-----
<b>Second Year First Semester</b>			<b>18</b>		
1	MTH221	Engineering Mathematics III	3	3-0-2	MTH122
2	STA112	Statistics	3	2-2-0	-----
3	CIE 201	Programming for Engineers	3	2-2-1	COM111
4	CIE 211	Statics	3	3-0-2	PHY121
5	CIE 213	CAD for Civil Engineering*	3	1-4-0	CIE 112
6	CIE 241	Surveying I	3	2-2-0	MTH121
<b>Second Year Second Semester</b>			<b>19</b>		
1	MTH222	Engineering Mathematics IV	3	3-0-2	MTH221
2	CIE 212	Mechanics of Materials	3	3-0-2	CIE 211, MTH122
3	CIE 222	Civil Engineering Materials	4	3-2-0	CHE101 Co CIE 212
4	CIE 242	Transportation Engineering	3	3-0-0	CIE 241
5	INN311	Innovation and Entrepreneurship (English)	3	3-0-0	-----
6	-----	University Elective – I	3	3-0-0	-----

		<b>Third Year First Semester</b>	<b>16</b>		
1	MTH321	Engineering Mathematics V	3	3-0-2	MTH222
2	CIE 331	Structural Analysis I	3	3-0-0	CIE 212 MTH222
3	CIE 351	Fluid Mechanics	4	3-2-0	CIE 211
4	CIE 361	Geotechnical Engineering I	3	2-2-0	CIE 212, CIE 222
5	CIE 371	Engineering Economics	3	3-0-0	MTH122, STA112
<b>2104000: ENGINEERING TRAINING (Internal)</b>				<b>(2 Weeks in Spring Break)</b>	
		<b>Third Year Second Semester</b>	<b>18</b>		
1	CIE 332	Structural Analysis II	3	3-0-0	CIE 331
2	CIE 334	Design of Reinforced Concrete Structures	3	3-0-2	CIE 331, CIE 222
3	CIE 336	Computational Methods and Software Systems for Design of Structures	3	2-2-0	CIE 331 CIE 201
4	CIE 342	Highway Design	3	3-0-0	CIE 242, CIE 222
5	CIE 352	Environmental Engineering	3	3-0-0	ENV111, CHE101
6	CIE 354	Hydrology & Water Resources	3	3-0-0	CIE 351
		<b>Fourth Year First Semester</b>	<b>18</b>		
1	CIE 491	Graduation Project I	3		CIE 334, CIE 342, CIE 371, CIE 352, CIE 361
2	CIE 431	Design of steel structures	3	3-0-0	CIE 331
3	CIE 471	Specification and Quantity Surveying	3	3-0-0	CIE 213, CIE 334
4	CIE 473	Construction Management	3	3-0-0	CIE 334 Co CIE 471
5	-----	Specialization Elective I	3	3-0-0	-----
6	-----	University Elective – II	3	3-0-0	-----
		<b>Fourth Year Second Semester</b>	<b>12</b>		
1	CIE 492	Graduation Project II	3		CIE 491
2	-----	Specialization Elective II	3	3-0-0	-----
3	-----	Specialization Elective III	3	3-0-0	-----
4	-----	Non-Specialization Elective	3	3-0-0	-----
		<b>Fourth Year Summer Semester</b>	<b>4</b>		
	CIE 499	Engineering Training	4	-----	

**141 Hours**

\* Studio is required