

School of Engineering
Department of Civil Engineering
 Roadmap for BS Civil Engineering Program
 Batch 01 (Fall 2014) & Batch 02(Fall 2015)

First Semester						
Code	Course Title	Lec	Lab	CH	Cn	Pre Req
CE102	Engineering Mechanics	3	0	3	3	
CE102L	Engineering Mechanics (Lab)	0	1	1	3	
CE113	Construction Materials	2	0	2	2	
CE113L	Construction Materials (Lab)	0	1	1	3	
CE111	Civil Engineering Drawing	1	0	1	1	
CE111L	Civil Engineering Drawing (Lab)	0	2	2	6	
HM101	English Grammar and Comprehension	2	0	2	2	
HM150	Islamic Studies/Ethics	2	0	2	2	
NS128	Applied Calculus	3	0	3	3	
Total		13	4	17	25	

Third Semester						
Code	Course Title	Lec	Lab	CH	Cn	Pre Req
CE203	Mechanics of Solids	3	0	3	3	CE102
CE203L	Mechanics of Solids (Lab)	0	1	1	3	CE102L
HM221	Social & Ethical Aspects in Engineering	3	0	3	3	
CE222	Advanced Surveying	2	0	2	2	CE121
CE222L	Advanced Surveying (Lab)	0	1	1	3	CE121L
CE251	Fluid Mechanics	3	0	3	3	
CE251L	Fluid Mechanics (Lab)	0	1	1	3	
NS231	Probability and Statistics for Engineers	3	0	3	3	NS128
Total		14	3	17	23	

Fifth Semester						
Code	Course Title	Lec	Lab	CH	Cn	Pre Req
CE305	Advanced Mechanics of Solids	3	0	3	3	CE203
CE305L	Advanced Mechanics of Solids (Lab)	0	1	1	3	CE203L
CE343	Geotechnical Engg-II	3	0	3	3	CE242
CE343L	Geotechnical Engg-II (Lab)	0	1	1	3	CE242L
CE352	Advanced Fluid Mechanics	3	0	3	3	CE251
CE352L	Advanced Fluid Mechanics (Lab)	0	1	1	3	
CE361	Steel Structures	3	0	3	3	
MS301	Construction Engineering & Management	2	0	2	2	
Total		14	3	17	23	

Seventh Semester						
Code	Course Title	Lec	Lab	CH	Cn	Pre Req
MS401	Quantity Surveying and Contract	2	0	2	2	CE332
MS401L	Quantity Surveying and Contract Management (Lab)	0	1	1	3	
CE457	Hydraulics Engineering	3	0	3	3	CE252
CE457L	Hydraulics Engineering (Lab)	0	1	1	3	CE252L
CE464	Plain & Reinforced Concrete-II	3	0	3	3	CE363
CE464L	Plain & Reinforced Concrete-II (Lab)	0	1	1	3	CE363L
CE498	Project (Phase-I)	0	3	3	3	
HM401	Technical Report Writing & Presentation Skills	2	0	2	2	
Total		10	6	16	22	

Second Semester						
Code	Course Title	Lec	Lab	CH	Cn	Pre Req
CS143	Programming Fundamentals	2	0	2	2	
CS143L	Programming Fundamentals (Lab)	0	1	1	3	
CE121	Elementary Surveying	2	0	2	2	
CE121L	Elementary Surveying (Lab)	0	2	2	6	
EF132	Basic Electrical Engg.	2	0	2	2	
EF132L	Basic Electrical Engg. (Lab)	0	1	1	3	
HM112	Pakistan Studies	2	0	2	2	
NS131	Linear Algebra & Ordinary Differential Equations	3	0	3	3	NS128
NS141	Engineering Geology	2	0	2	2	
Total		13	4	17	25	

Fourth Semester						
Code	Course Title	Lec	Lab	CH	Cn	Pre Req
CE204	Structural Analysis-I	3	0	3	3	CE102
CE212	Civil Engineering Construction & Graphics	1	0	1	1	CE111
CE212L	Civil Engineering Construction & Graphics (Lab)	0	2	2	6	CE111L
NS242	Geo-Informatics	2	0	2	2	
NS242L	Geo-Informatics (Lab)	0	1	1	3	
CE242	Geotechnical Engineering-I	3	0	3	3	
CE242L	Geotechnical Engineering-I (Lab)	0	1	1	3	
HM231	Engineering Economics	2	0	2	2	
NS232	Numerical Analysis	2	0	2	2	NS131
NS232L	Numerical Analysis (Lab)	0	1	1	3	
Total		13	5	18	28	

Sixth Semester						
Code	Course Title	Lec	Lab	CH	Cn	Pre Req
CE306	Structural Analysis-II	3	0	3	3	CE204
CE355	Environmental Engg-I	3	0	3	3	
CE363	Plain & Reinforced Concrete-I	3	0	3	3	
CE363L	Plain & Reinforced Concrete-I (Lab)	0	1	1	3	
CE371	Transportation Planning & Engineering	3	0	3	3	
MS302	Hydrology and Water Resources Management	3	0	3	3	
MS302L	Hydrology and Water Resources Management (Lab)	0	1	1	3	
Total		15	2	17	21	

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Eighth Semester						
Code	Course Title	Lec	Lab	CH	Cn	Pre Req
MS402	Hazards & Disaster Management	2	0	2	2	
CE444	Pavement & Foundation Engineering	3	0	3	3	CE343, CE371
CE444L	Pavement & Foundation Engineering Lab	0	1	1	3	
CE456	Environmental Engg-II	3	0	3	3	CE355
CE456L	Environmental Engg-II (Lab)	0	1	1	3	
CE459	Irrigation Engineering	3	0	3	3	CE457
CE459L	Irrigation Engineering (Lab)	0	1	1	3	
CE499	Project (Phase-II)	0	3	3	3	
Total		11	6	17	23	

Total Credit Hours = 136

- Note:** 1. CH Stands for Credit Hours
 2. Cn Stands for Contact Hours.