

# Scheme of Studies

Semester 1		Contact hours		Credit hours
No.	Course	Lecture	Lab.	Total
BSI-101	Islamic Studies	2	0	2
BSI-111	Linear Algebra	3	0	3
BSI-133	Functional English	3	0	3
EE-106L	Electrical Technology	0	3	1
ME-191	Mech. Tech. & Heavy Construction Machinery	2	0	2
CE-112	Engineering Drawing for Civil Engineers	2	3	3
CE-121	Civil Engineering Materials	2	0	2
Total Contact Hours		14	6	20
Total Credit Hours		14	2	16

Semester 3		Contact hours		Credit hours
No.	Course	Lecture	Lab.	Total
CE-225ψ	Mechanics of Solids – I	3	3	4
CE-217	Engineering Geology & Seismology	3	0	3
CE-210	Introduction to Architecture & Urban Planning	2	0	2
CE-226ψ	Surveying – I	2	3	3
BSI-351	Probability & Statistics	3	0	3
BSI-141	Communication and Presentation Skills	2	0	2
Total Contact Hours		15	6	21
Total Credit Hours		15	2	17

Semester 5		Contact hours		Credit hours
No.	Course	Lecture	Lab.	Total
CE-310ψ	Transportation Engineering – I	3	0	3
CE-330ψψ	Fluid Mechanics – II	3	3	4
CE-301ψψ	Structural Analysis - II	3	0	3
CE-324ψ	Environmental Engineering – I	2	0	2
CE-318	GIS & Remote Sensing	1	3	2
CE-331ψ	Geotechnical Engineering – I	2	3	3
CE-332L	Civil Engineering Software Application	0	3	1
Total Contact Hours		14	12	26
Total Credit Hours		14	4	18

Semester 7		Contact hours		Credit hours
No.	Course	Lecture	Lab.	Total
CE-430	Foundation Engineering	2	0	2
CE-412	Intro. to Str. Dynamics & Earthquake Engg.	3	0	3
CE-416ψψ	Reinforced Concrete Design - II	3	0	3
CE-431	Engineering Hydrology	3	0	3
CE-421	Quantity Surveying & Civil Engineering Practice	2	0	2
CE-411	Final Year Project	0	9	3
CE-432L	Hydraulics and Hydrology Lab	0	3	1
Total Contact Hours		13	12	25
Total Credit Hours		13	4	17

Total Credit Hours = 136  
 Engineering Domain = 69.9 %  
 Non-Engineering Domain = 30.1 %

Theory Courses = 58.5 %  
 Lab Courses = 41.5 %

Semester 2		Contact hours		Credit hours
No.	Course	Lecture	Lab.	Total
CE-117	Engineering Mechanics	3	3	4
BSI-231	Differential Equations	3	0	3
CE-120	Building Construction Engineering	2	0	2
BSI-122	Calculus	3	0	3
CE-107L	Computer Programing for Civil Engineers	0	3	1
CE-125	Concrete Technology	2	3	3
BSI-110	Pakistan Studies	2	0	2
Total Contact Hours		15	9	24
Total Credit Hours		15	3	18

Semester 4		Contact hours		Credit hours
No.	Course	Lecture	Lab.	Total
BSI-242	Numerical Analysis	2	3	3
CE-215ψ	Structural Analysis - I	3	3	4
CE-227L	Building Information Modeling (BIM)	0	3	1
CE-228ψψ	Mechanics of Solids - II	3	0	3
CE-206ψ	Fluid Mechanics – I	3	0	3
CE-229ψψ	Surveying – II	3	3	4
Total Contact Hours		14	12	26
Total Credit Hours		14	4	18

Semester 6		Contact hours		Credit hours
No.	Course	Lecture	Lab.	Total
CE-311ψψ	Transportation Engineering - II	3	3	4
CE-333ψψ	Environmental Engineering - II	2	3	3
CE-303	Hydraulics	2	0	2
CE-320ψ	Reinforced Concrete Design - I	3	0	3
CE-335ψψ	Geotechnical Engineering - II	2	3	3
BSI-120	Professional Ethics	2	0	2
Total Contact Hours		14	9	23
Total Credit Hours		14	3	17

Semester 8		Contact hours		Credit hours
No.	Course	Lecture	Lab.	Total
CE-406	Construction Management & Engg. Economics	3	3	4
CE-409	Steel Structures	3	0	3
CE-422	Sustainable Dev. & Disaster Risk Management	2	0	2
CE-402	Irrigation Engineering	3	0	3
CE-411	Final Year Project	0	9	3
Total Contact Hours		11	12	23
Total Credit Hours		11	4	15

ψ Pre-requisites for ψψ courses