

SCHEME OF STUDIES FOR BATCH 2023 and Onwards

FIRST YEAR									
Fall Semester					Spring Semester				
Course Code	Course Title	Credit Hours			Course Code	Course Title	Credit Hours		
		Th	Pr	Total			Th	Pr	Total
CE-107	Engineering Drawing-I	1	2	3	CE-109	Engineering Surveying-I	2	1	3
CE-102	Statics and Dynamics	3	1	4	CE-110	Chemistry for Civil Engineers	1	1	2
EE-123	Basic Electrical Engineering	2	0	2	CE-111	Introduction to Computing for Civil Engineering	1	2	3
CE-108	Engineering Materials	2	1	3	ME-110	Basic Mechanical Engineering	2	0	2
MT-114	Calculus	3	0	3	EA-111	Functional English	2	0	2
ES-106 / ES-127	Pakistan Studies/ Pakistan Studies (for Foreigners)	1	0	1	MT-221	Linear Algebra & Ordinary Differential Equations	3	0	3
	TOTAL CREDITS	12	4	16		TOTAL CREDITS	11	4	15
SECOND YEAR									
Fall Semester					Spring Semester				
Course Code	Course Title	Credit Hours			Course Code	Course Title	Credit Hours		
		Th	Pr	Total			Th	Pr	Total
CE-201	Engineering Surveying - II	3	1	4	CE-222	Engineering Drawing & Drafting-II	1	2	3
CE-205	Mechanics of Solids -I	3	1	4	CE-219	Fluid Mechanics-I	3	1	4
CE-220	Geology for Engineers	2	1	3	CE-221	Structure Analysis -I	3	0	3
EA-218	Business Communication	2	1	3	EA-219	Professional Ethics	2	0	2
ES-205/ ES-209	Islamic Studies OR Ethical Behaviour (for Non-Muslims)	2	0	2	MT-331	Probability & Statistics	3	0	3
AR-309	Architecture and Town Planning	3	0	3	CF-303	Applied Economics for Engineers	3	0	3
-	-	-	-	-	EA-200	Community Service	NC	-	-
	TOTAL CREDITS	15	4	19		TOTAL CREDITS	15	3	18

THIRD YEAR									
Fall Semester					Spring Semester				
Course Code	Course Title	Credit Hours			Course Code	Course Title	Credit Hours		
		Th	Pr	Total			Th	Pr	Total
CE-320	Reinforced Concrete Design I	3	0	3	CE-323	Quantity and Cost Estimation	3	0	3
CE-321	Construction Engineering	3	0	3	CE-305	Soil Mechanics I	3	1	4
CE-302	Transportation Engineering I	3	1	4	CE-314	Structural Analysis II	3	0	3
CE-319	Fluid Mechanics II	3	1	4	CE-322	Mechanics of Solids II	3	0	3
MT-443	Numerical Analysis	3	0	3	CE-424	Essentials in Construction Project Management	3	0	3
-	-	-	-	-	EA/ES	Foreign language-I	NC		
	TOTAL CREDITS	15	2	17		TOTAL CREDITS	15	1	16
FINAL YEAR									
Fall Semester					Spring Semester				
Course Code	Course Title	Credit Hours			Course Code	Course Title	Credit Hours		
		Th	Pr	Total			Th	Pr	Total
CE-403	Soil Mechanics-II	3	1	4	CE-###	Civil Engineering Elective	3	0	3
CE-###	Social Science Electives	2	0	2	CE-###	Management Science Electives	3	0	3
CE-418	Hydraulic and Water Resource Engineering-I	3	1	4	CE-432	Transportation Engineering-II	2	0	2
CE-420	Reinforced Concrete Design-II	3	0	3	CE-421	Design of steel Structures	3	0	3
EN-301	Environmental Engineering-I	2	1	3	EN-401	Environmental Engineering II	2	1	3
CE-409	Civil Engineering Project	0	3	3	CE-409	Civil Engineering Project	0	3	3
EA/ES	Foreign Language-II	NC			-	-	-	-	-
	TOTAL CREDITS	13	6	19		TOTAL CREDITS	13	4	17
Grand Total- 136									

List of Engineering Electives (3 Credits)

	Course Code	Course Title	Th.	Pr.	Total
Civil Engineering Electives	CE-422	Structural Design and Drawing	3	0	3
	CE-423	Masonry Structures	3	0	3
	CE-419	Applied Hydraulics	3	0	3
	CE-426	Building Information Modeling	1	2	3
	CE-429	Geosynthetics and their applications	3	0	3
	CE-431	Geoinformatics Applications	2	1	3
	CE-438	Hydraulics and Water Resources Engineering-II	3	0	3
	CE-433	Coastal and Harbour Engineering	3	0	3
	CN-424	Environmental Issues in construction	3	0	3
	CN-430	Disaster and Reconstruction Management	3	0	3
	CE-440	Commute and Mass Transit	3	0	3

	Course Code	Course Title	Th.	Pr.	Tot al
Management Science Elective	CN-423	Management and marketing of Construction Services	3	0	3
	CN-432	Leadership and Human Skills in Management	3	0	3
	CE-425	Modern Aspects of Construction Project Management	3	0	3
	CE-434	Procurement Management	3	0	3
	CE-435	Construction Contract Management	3	0	3
Social Science Elective	CE-427	Introduction to Entrepreneurship & Opportunity Assessment	2	0	2
	CE-439	Engineer and Society	2	0	2
	MG-228	Sociology and Development	2	0	2
	CE-441	Professional Ethics in Construction Industry	2	0	2