

Scheme of Studies

BS in Civil Engineering Technology

Semester-I

Category	Course Code	Course Title	Credit Hours	Pre-Requisite
GE-1	NSC-1110	Applied Mathematics I	3(3-0)	Nil
Major-1	CET-1120	Materials and Methods of Construction	2(2-0)	Nil
Major-2	CET-1121	Materials and Methods of Construction Lab	1(0-1)	Nil
GE-2	NSC-1130	Applied Physics	2(2-0)	Nil
GE-3	NSC-1131	Applied Physics Lab	1(1-0)	Nil
Major-3	CET-1140	Civil Engineering drawing, Drafting and Interpretation	1(1-0)	Nil
Major-4	CET-1141	Civil Engineering drawing, Drafting and Interpretation Lab	2(0-2)	Nil
ID-1	ICT-1150	Application of Information Communication Technologies (ICT)	2(2-0)	Nil
ID-2	ICT-1151	Application of Information Communication Technologies (ICT) Lab	1(0-1)	Nil
GE-4	URCG-5118	Functional English	3(3-0)	Nil

Semester Total Credit Hours: 18

Semester-II

Category	Course Code	Course Title	Credit Hours	Pre-Requisite
Major-5	CET-1210	Concrete Technology	2(2-0)	Nil
Major-6	CET-1211	Concrete Technology Lab	1(0-1)	Nil
GE-5	HUM-1220	Communication Skills	3(3-0)	URCG-5118
Major-7	CET-1230	Surveying	2(2-0)	Nil
Major-8	CET-1231	Surveying Lab	2(0-2)	Nil
GE-6	URCG-5105 URCG-5126	Islamic Studies (OR) Religious Education/Ethics	2(2-0)	Nil
GE-7	NSC-1250	Applied Mathematics II	3(3-0)	NSC-1110
GE-8	NSC-1260	Applied Chemistry	2(2-0)	Nil
GE-9	NSC-1261	Applied Chemistry Lab	1(0-1)	Nil
GE-10	URCG-5111	Translation of the Holy Quran-I	NC	Nil

Semester Total Credit Hours: 18

Semester-III

Category	Course Code	Course Title	Credit Hours	Pre-Requisite
ID-3	CET-2110	Evolution of Architecture and Engineering	2(2-0)	CET-1140
Major-9	CET-2120	Professional Ethics for Civil Engineering Technology	3(3-0)	Nil
Major-10	CET-2130	Environmental Technology	2(2-0)	Nil
Major-11	CET-2131	Environmental Technology Lab	1(0-1)	Nil
Major-12	CET-2140	Fluid Mechanics	2(2-0)	Nil
Major-13	CET-2141	Fluid Mechanics Lab	1(0-1)	Nil
Major-14	CET-2150	Mechanics of Solids	2(2-0)	Nil
Major-15	CET-2151	Mechanics of Solids Lab	2(0-2)	Nil
GE-11	URCG-5122	Ideology and Constitution of Pakistan	2(2-0)	Nil

GE-12	URCG-5127	Seerat of the Holy Prophet (SAW)	1(1-0)	Nil
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Semester Total Credit Hours: 18

Semester-IV

Category	Course Code	Course Title	Credit Hours	Pre-Requisite
Major-16	CET-2210	Transportation and Highway Technology	2(2-0)	Nil
Major-17	CET-2211	Transportation and Highway Technology Lab	2(0-2)	Nil
GE-13	URCG-5125	Civics and Community Engagement	2(2-0)	Nil
Major-18	CET-2230	Soil Mechanics	2(2-0)	Nil
Major-19	CET-2231	Soil Mechanics Lab	2(0-2)	Nil
Major-20	CET-2240	Structural Principles	2(2-0)	Nil
GE-14	HUM-2250	Technical & Scientific Writing for Technologists	3(3-0)	Nil
ID-4	CET-2260	Engineering Economics	3(3-0)	Nil
GE-15	URCG-5111	Translation of the Holy Quran-II	NC	Nil

Semester Total Credit Hours: 18

Summer Semester

Category	Course Code	Course Title	Credit Hours	Pre-Requisite
Compulsory		Survey Camp		

Semester-V

Category	Course Code	Course Title	Credit Hours	Pre-Requisite
Major-21	CET-3110	Hydrology	1(1-0)	CET-2140
Major-22	CET-3111	Hydrology Lab	1(0-1)	CET-2141
Major-23	CET-3120	Reinforced and Prestressed Concrete	2(2-0)	CET-1210
Major-24	CET-3121	Reinforced and Prestressed Concrete Lab	1(0-1)	CET-1211
Major-25	CET-3130	Construction Equipment and Jobsite Practices	2(2-0)	CET-1120
Major-26	CET-3131	Construction Equipment and Jobsite Practices Lab	1(0-1)	CET-1121
Major-27	CET-3140	Computer Aided Drawing and Building Information Modelling	1(1-0)	CET-1140
Major-28	CET-3141	Computer Aided Drawing and Building Information Modelling Lab	2(0-2)	CET-1141
Major-29	CET-3150	Geotechnical Investigation and Foundations	1(1-0)	CET-2230
Major-30	CET-3151	Geotechnical Investigation and Foundations Lab	1(0-1)	CET-2231
ID-5	CET-3160	Electro-Mechanical Technology	2(2-0)	Nil
Project-1	CET-3171	Project	3(0-3)	Nil
GE-16	URCG-5111	Translation of the Holy Quran-III	NC	Nil

Semester Total Credit Hours: 18

Semester-VI

Category	Course Code	Course Title	Credit Hours	Pre-Requisite
ID-6	CET-3210	Engineering Geology	2(2-0)	Nil
Major-31	CET-3220	Irrigation Technology	3(3-0)	CET-3110
Major-32	CET-3230	Construction of Steel Structures	2(2-0)	CET-2150
Major-33	CET-3231	Construction of Steel Structures Lab	1(0-1)	CET-2151
Major-34	CET-3240	Quantity Surveying and Estimation	1(1-0)	CET-1140
Major-35	CET-3241	Quantity Surveying and Estimation Lab	2(0-2)	CET-1141
Major-36	CET-3250	Repair and Maintenance of Civil Works	2(2-0)	CET-3130
GE-17	URCE-5124	Entrepreneurship	2(2-0)	Nil
Project-2	CET-3271	Project	3(0-3)	CET-3171
GE-18	URCG-5111	Translation of the Holy Quran-IV	NC	Nil

Semester Total Credit Hours: 18

Semester-VII

Category	Course Code	Course Title	Credit Hours	Pre-Requisite
FE-1	CET-4111	Supervised Industrial Training	16(0-16)	Nil

Semester Total Credit Hours: 16

Semester-VIII

Category	Course Code	Course Title	Credit Hours	Pre-Requisite
FE-2	CET-4211	Supervised Industrial Training	16(0-16)	CET-4111