

Department of Civil Engineering

0254

B.Tech Civil

Shift : Morning/Afternoon
Duration : 4 years, 8 semesters, 130 credit hours
Eligibility : DAE (Civil) or equivalent with at least 50% marks from any recognized Board

1st Semester

Course	Course Title	Credit Hours
CT-101	Material & Methods of Constructions	2
CT-101(L)	Material & Methods of Constructions	1
CT-102	Civil Engineering Drawing	2
CT-102(L)	Civil Engineering Drawing	2
ENG-112	English Grammar	3
HUM-101	Islamic Studies	2
MTS-121	Applied Mathematics-I	3

2nd Semester

Course	Course Title	Credit Hours
CT-103	Concrete Technology	2
CT-103(L)	Concrete Technology	1
CT-104	Computer Aided Drawing	1
CT-104(L)	Computer Aided Drawing	1
HUM-102	Pakistan Studies	2
HUM-108	Professional Ethics	2
MTS-123	Applied Mathematics-II	3

3rd Semester

Course	Course Title	Credit Hours
CT-201	Mechanics of Materials	3
CT-201(L)	Mechanics of Materials	1
CT-202	Construction of Surveying	2
CT-202(L)	Construction of Surveying	1
CSC-109	Computer Fundamentals	2
CSC-109(L)	Computer Fundamentals	1
ENG-201	Business Communication	3

4th Semester

Course	Course Title	Credit Hours
CT-203	Soil Mechanics	3
CT-203(L)	Soil Mechanics	1
CT-204	Structural Mechanics	2
CT-204(L)	Structural Mechanics	1
CT-205	Fluid Mechanics	3
CT-205(L)	Fluid Mechanics	1
CT-206	Occupational Health & Safety	3

5th Semester

Course	Course Title	Credit Hours
CT-301	Cost Estimates & Contract Documents	2
CT-302	Repair & Maintenance of Structures	2
CT-302(L)	Repair & Maintenance of Structures	1
CT-303	Design of Concrete Structure	3
CT-304	Irrigation & Hydraulic Structures	2
CT-304(L)	Irrigation & Hydraulic Structures	1
CT-305	Geographic Information System	2
CT-305(L)	Geographic Information System	1

6th Semester

Course	Course Title	Credit Hours
CT-310	Architecture & Town Planning	3
CT-306	Steel Structures	3
CT-307	Building Construction	3
CT-308	Water Supply & Waste Water Management	3
CT-309	Highway & Transport Technology	2
CT-309(L)	Highway & Transport Technology	1
MGT-301	Project Management	3

7th Semester

Course	Course Title	Credit Hours
CT-311	Airport & Railways Engineering	3
CT-401	Environmental Management	2
CT-401(L)	Environmental Management	1
CT-402	Computer Aided Analysis & Design	2
CT-402(L)	Computer Aided Analysis & Design	1
CT-499	Project Phase-I	3
ECO-303	Engineering Economics	3
MGT---	Industrial Management	3

8th Semester

Course	Course Title	Credit Hours
CT-403	Foundation & Pavements	2
CT-403(L)	Foundation & Pavements	1
CT-404	Pre-Stressed & Pre-Cast Concrete Technology	2
CT-404(L)	Pre-Stressed & Pre-Cast Concrete Technology	1
CT-405	Hydrology	3
CT-499	Project Phase-II	3
MGT-404	Total Quality Management	3