

**SoS for Semesters of B.Sc. Civil Engineering
(Revised for Session 2025 as per PEC Curriculum)**

FIRST SEMESTER

Course Title	Code	Theory CHs	Lab CHs
Geology for Engineers	MD-101	2	0
Islamic Studies/Ethics	HU-102	2	0
Applied Physics & Electro- Mechanical Fundamentals	NS-103	2	1
Engineering Drawing	CE-104	1	2
Functional English	HU-105	3	0
Engineering Mechanics	CE-106	2	1
Understanding of Holy Quran-II / Fehm-e-Quran-I	HU-107	0	1
		12	5
		Total CHs	17

SECOND SEMESTER

Course Title	Code	Theory CHs	Lab CHs
Engineering Surveying	CE-108	2	1
Civil Engineering Materials	CE-109	2	1
Applications of ICT	CS-110	2	1
Ideology and Constitution of Pakistan	HU-111	2	0
Computer Programming	CS-112	1	1
Quantitative Reasoning	NS-113	3	0
Understanding of Holy Quran-II / Fehm-e-Quran-II	HU-114	0	1
		12	5
		Total CHs	17
		1st Year CHs	34

THIRD SEMESTER

Course Title	Code	Theory CHs	Lab CHs
Civil Engineering Drawing & Graphics	CE-201	1	1
Advanced Engineering Surveying	CE-202	2	1
Fluid Mechanics	CE-203	2	1
Mechanics of Solids-I	CE-204	2	1
Engineering Economics	HU-205	2	0
Advanced Calculus	NS-206	3	0
Pakistan Studies	HU-207	2	0
		14	4
		Total CHs	18

FOURTH SEMESTER

Course Title	Code	Theory CHs	Lab CHs
Construction Engineering	CE-208	2	0
Elementary Chinese	HU-209	2	0
Applied Mathematics	NS-210	3	0
Expository Writing	HU-211	3	0
Soil Mechanics	CE-212	2	1
Geoinformatics	CE-213	1	1
Structural Analysis-I	CE-214	3	0
Survey Camp	-	0	0
Community Service	-	0	0
		16	2
		Total CHs	18
		2nd Year CHs	36

FIFTH SEMESTER

Course Title	Code	Theory CHs	Lab CHs
Quantity & Cost Estimation	CE-301	2	1
Engineering Hydrology	CE-302	2	1
Mechanics of Solids-II	CE-303	2	1
Geotechnical Engineering	CE-304	3	1
Structural Analysis-II	CE-305	3	0
Properties of Concrete	CE-306	1	1
		13	5
		Total CHs	18

SIXTH SEMESTER

Course Title	Code	Theory CHs	Lab CHs
Foundation Engineering	CE-307	2	0
Reinforced Concrete Design-I	CE-308	3	0
Advanced Fluid Mechanics	CE-309	2	1
Highway and Traffic Engineering	CE-310	2	0
Numerical Analysis	HU-311	3	0
Modeling and Simulation	MD-312	1	1
Steel Structures	CE-313	2	0
Internship (6-8 Weeks)	-	0	0
		15	2
		Total CHs	17
		3rd Year CHs	35

SEVENTH SEMESTER

Course Title	Code	Theory CHs	Lab CHs
Environmental Engineering-I	CE-401	1	1
Reinforced Concrete Design-II	CE-402	3	1
Pavement Analysis and Design	CE-403	2	1
Hydraulic Engineering	CE-404	2	1
Project Management	MS-405	2	0
Architecture and Town Planning	MD-406	1	0
FYDP Part-I	CE-407-A	0	3
		11	7
		Total CHs	18

EIGHTH SEMESTER

Course Title	Code	Theory CHs	Lab CHs
Irrigation Engineering	CE-408	2	1
Civics and Community Engagement	HU-409	2	0
Analysis and Design of Structures	CE-410	1	1
Environmental Engineering-II	CE-411	2	0
Structural Engineering	CE-412	2	0
Entrepreneurship	MS-413	2	0
Occupational Health and Safety	MD-414	1	0
FYDP Part-II	CE-407-B	0	3
		12	5
		Total CHs	17
		4th Year CHs	35

Theory	Lab
105	35
	Grand Total
	140