

**SoS for Semesters of B.Sc. Civil Engineering
(Revised for Session 2023 as per PEC Curriculum)**

FIRST SEMESTER

Course Title	Code	Theory CHs	Lab CHs
Engineering Drawing	CE-101	1	2
Applied Mechanics	NS-102	2	1
Applied Geology	MD-103	2	0
Engineering Surveying	CE-104	2	1
Applied Calculus	NS-105	3	0
Islamic Studies/Ethics	HU-106	2	0
		12	4
		Total CHs	16

SECOND SEMESTER

Course Title		Theory CHs	Lab CHs
Advanced Engineering Surveying	CE-107	2	1
Civil Engineering Materials	CE-108	2	1
Professional Ethics and Humanities	HU-109	2	0
Differential Equations	NS-110	3	0
Ideology and Constitution of Pakistan	HU-111	2	0
Functional English	HU-112	3	0
Quran Translation-I (Imaniyat)	QT-101	0	0
		14	2
		Total CHs	16
		1st Year CHs	32

THIRD SEMESTER

Course Title		Theory CHs	Lab CHs
Fluid Mechanics	CE-201	2	1
Applications of ICT	CS-202	2	1
Numerical Analysis	NS-203	3	0
Computer Programming	CS-204	1	1
Engineering Economics	NS-205	2	0
Geoinformatics	CE-206	1	1
Entrepreneurship	MS-207	2	0
		13	4
		Total CHs	17

FOURTH SEMESTER

Course Title		Theory CHs	Lab CHs
Structural Analysis-I	CE-208	3	0
Mechanics of Solids-I	CE-209	2	1
Architecture and Town Planning	MD-210	2	0
Quantity & Cost Estimation	CE-211	2	1
Construction Engineering	CE-212	2	0
Expository Writing	HU-213	3	0
Properties of Concrete	CE-214	1	1
Quran Translation-II (Ibadat)	QT-202	0	0
Survey Camp	-	0	0
Community Service	-	0	0
		15	3
		Total CHs	18
		2nd Year CHs	35

FIFTH SEMESTER

Course Title		Theory CHs	Lab CHs
Quantitative Reasoning	NS-301	3	0
Mechanics of Solids-II	CE-302	2	1
Structural Analysis-II	CE-303	3	0
Modelling and Simulation	MD-304	1	1
Engineering Hydrology	CE-305	2	1
Civil Engineering Drawing & Graphics	CE-306	1	1
Soil Mechanics	CE-307	2	1
		14	5
		Total CHs	19

SIXTH SEMESTER

Course Title		Theory CHs	Lab CHs
Reinforced Concrete Design-I	CE-308	3	0
Steel Structures	CE-309	3	0
Advanced Fluid Mechanics	CE-310	2	1
Highway and Traffic Engineering	CE-311	2	0
Geotechnical Engineering	CE-312	3	1
Project Management	MS-313	2	0
Quran Translation-III (Muamlaat)	QT-303	0	0
Internship (6-8 Weeks)	-	0	0
		15	2
		Total CHs	17
		3rd Year CHs	36

SEVENTH SEMESTER

Course Title		Theory CHs	Lab CHs
Environmental Engineering-I	CE-401	2	0
Reinforced Concrete Design-II	CE-402	3	1
Hydraulic Engineering	CE-403	2	1
Pavement Analysis and Design	CE-404	2	1
Foundation Engineering	CE-405	2	1
FYDP Part-I	CE-406-A	0	3
		11	7
		Total CHs	18

EIGHTH SEMESTER

Course Title		Theory CHs	Lab CHs
Irrigation Engineering	CE-407	2	0
Analysis and Design of Structures	CE-408	1	1
Environmental Engineering-II	CE-409	2	1
Structural Engineering	CE-410	2	0
Occupational Health and Safety	MD-411	1	0
Civics and Community Engagement	CE-412	2	0
Pakistan Studies	HU-413	2	0
FYDP Part-II	CE-406-B	0	3
Quran Translation-IV (Muamlaat)	QT-404	0	0
		12	5
		Total CHs	17
		4th Year CHs	35

Theory	Lab
106	32
	Grand Total
	138