

Chairman

Prof. Dr. Bashir Alam Ph.D. (USA)

Professors

Prof. Dr. Akhtar Naeem Khan (TI) Ph.D. (USA)
 Prof. Engr. Amjad Ali M.Sc. (USA)
 Prof. Dr. Qaisar Ali Ph.D. (Pak)
 Prof. Dr. Irshad Ahmad Ph.D. (Pak)
 Prof. Dr. Amjad Naseer Ph.D. (Pak)
 Prof. Dr. Muhammad Javed Ph.D. (Pak)
 Prof. Dr. S. Muhammad Ali Ph.D. (Pak)

Associate Professors

Dr. Muhammad Ashraf Ph.D. (Pak)
 Dr. Khan Shahzada Ph.D. (Pak)

Assistant Professors

Dr. Navid Ahmad Ph.D. (USA)
 Dr. Rawid Khan Ph.D. (UK)
 Dr. Qaiser Iqbal Ph.D. (UK)
 Dr. Mohammad Adil Ph.D. (UK)
 Dr. Mujahid Khan Ph.D. (Pak)
 Dr. Naveed Ahmad Ph.D. (Italy)
 Dr. Muhammad Fahad Ph.D. (USA)
 Engr. Faisal ur Rehman M.Sc. (Pak)
 Engr. Haleema Attaullah M.Sc. (Pak)
 Engr. Tabinda Masud M.Sc. (Pak)
 Dr. Awais Ahmed Ph.D. (Netherlands)
 Dr. Salman Saeed Ph.D. (Canada)

Lecturers

Dr. M. Sagheer Aslam Ph.D. (Canada)
 Engr. Mansoor Khan M.Sc. (Sweden)
 Engr. Alamgir Khalil M.Sc. (Pak)
 Engr. Ambreen B.Sc. (Pak)
 Engr. Muhammad Fahim M.Sc. (Pak)
 Engr. M. Adeel Arshad M.Sc. (Italy)
 Engr. Muhammad Rizwan M.Sc. (Pak)
 Engr. Arsalaan Khan M.Sc. (Pak)
 Engr. Tayyaba Bibi M.Sc. (Pak)
 Engr. Sikandar Sajid B.Sc. (Pak)
 Engr. Muhammad Salman B.Sc. (Pak)
 Engr. Hizbullah Sajid B.Sc. (Pak)
 Engr. Mudassir Iqbal B.Sc. (Pak)

Visiting Faculty

Prof. Engr. Farid Khan M.Sc. (Pak)

Lab. Engineer

Engr. Shams-ul-Khalique B.Sc. (Pak)

Department of Civil Engineering

The courses of study leading to the Degree of B.Sc civil engineering have been planned to offer a broad spectrum of civil engineering subjects. The curriculum lays emphasis on subjects of structures, irrigation, geo-technical, transportation engineering, environmental engineering and hydraulics. These courses include laboratory and design work.

The prescribed syllabi and examination standards compare favorably with the standard of under-graduate work developed in U.K, USA and Canada.

In addition to course work, the final year students are required to work on a project under the guidance of senior faculty members. Study tours and extension lectures are also arranged during the session for the benefit of the students.

Second year or third year students during their summer break and final year students after passing the final examination in civil engineering may work with some recognized organizations, registered with PEC or government department or semi-government department to acquire practical training of 800 hours for award of degree.

The Civil Engineering Department offers a post-graduate program with specialization in structural engineering, water resources engineering, environmental engineering, geotechnical engineering, transportation engineering and earthquake engineering.

Academic Programmes

- > B.Sc Civil Engineering
- > M.Sc Civil Engineering
- > Ph.D. Civil Engineering

Field Visits

Field visits to Civil Engineering projects of national importance are arranged for students. Each year students and concerned faculty members visit facilities and projects with a high technical merit.

Survey Camp

Each year field course in surveying and leveling is arranged for students of third year Civil Engineering for a period of three weeks

for experience. The course includes hands-on work in contouring, triangulation, fly leveling and plane tabling.

Laboratories

The Department is supported by well-equipped laboratories having state-of-the-art machinery and equipment. It has the following laboratories:

- > Concrete Laboratory
- > Hydraulics Laboratory
- > Soil Mechanics & Highway Engineering Laboratory
- > Material Testing Laboratory
- > Surveying Laboratory
- > Public Health Engineering Laboratory
- > Postgraduate Computer Laboratory
- > Structural Engineering Laboratory
- > R & D Laboratory
- > Undergraduate Computer Laboratory
- > Earthquake Engineering Centre

Research

The faculty is involved in need-based research projects, continuously interacting with industry. In this regard some of the projects recently undertaken are:

- > Application of Slops Stability Techniques
- > Development of Attenuation Relationship for Pakistan
- > Microzonation Map for Different Cities of Pakistan
- > Seismic Strength Evaluation of Masonry Buildings
- > Evaluation of Indigenous Pozzolanic Materials
- > Insulation Properties of Porous Bricks Cavity Walls and Other Indigenous Materials.
- > Shake Table Test of Reduced Scale Masonry and RC Structures.
- > Advanced Composite Materials
- > Bridge Assessment (Collapse Analysis)
- > Earthquake Resistance Design
- > Low Cost Water Filters
- > Cost and Performance Optimization of Bridge Superstructures



Scheme of Studies

Semester 1		Contact hours		Credit hours
No.	Course	Lecture	Lab.	Total
CE-107L	Computer Programming for Civil Engg.	0	3	1
BSI-141	Communication and Presentation Skills	3	0	3
CE-106	Civil Engg. Material & Concrete Tech.	3	3	4
BSI-101	Islamic Studies	2	0	2
CE-115	Introduction to Civil Engineering Industry	0	3	1
BSI-111	Linear Algebra	3	0	3
BSI-122	Calculus	3	0	3
Total Contact Hours		14	9	
Total Credit Hours		14	3	17

Semester 3		Contact hours		Credit hours
No.	Course	Lecture	Lab.	Total
CE-213	Building Construction and Drawings (CAD)	2	3	3
CE-206 ^ψ	Fluid Mechanics - I	3	0	3
CE-214 ^ψ	Mechanics of Solids - I	3	3	4
CE-205 ^ψ	Surveying - I	3	3	4
BSI-242	Numerical Analysis	3	0	3
EE-106L	Electrical Technology	0	3	1
Total Contact Hours		14	12	
Total Credit Hours		14	4	18

Semester 5		Contact hours		Credit hours
No.	Course	Lecture	Lab.	Total
CE-312	Engineering Geology & Seismology	3	0	3
CE-318L	GIS/RS Application to CE (Geo-Info Engg.)	0	3	1
CE-313 ^{ψψ}	Geo-Technical Engineering - II	2	3	3
CE-401 ^ψ	Environmental Engineering - I	3	3	4
CE-303	Hydraulics	3	0	3
CE-215 ^ψ	Structural Analysis - I	3	3	4
Total Contact Hours		14	12	
Total Credit Hours		14	4	18

Semester 7		Contact hours		Credit hours
No.	Course	Lecture	Lab.	Total
CE-407	Project Planning, Mngt. & Engg. Eco	2	3	3
CE-409	Steel Structure	3	0	3
CE-311 ^{ψψ}	Transportation Engineering-II	3	3	4
CE-309L	Structural Engineering Software Application	0	3	1
CE-411	Project	0	9	3
CE-419	Sustainable Dev. & Disaster Risk Management	3	0	3
Total Contact Hours		11	18	
Total Credit Hours		11	6	17

Total Credit Hours = 136

Semester 2		Contact hours		Credit hours
No.	Course	Lecture	Lab.	Total
CE-112	Engineering Drawing for Civil Engineering	2	3	3
ME-191	Mech. Tech. & Heavy Const. Machinery	2	3	3
CE-116	Engineering Mechanics	2	3	3
BSI-110	Pakistan Studies	2	0	2
BSI-231	Differential Equations	3	0	3
CE-210	Introduction to Architecture & Urban Planning	2	0	2
Total Contact Hours		13	9	
Total Credit Hours		15	3	16

Semester 4		Contact hours		Credit hours
No.	Course	Lecture	Lab.	Total
CE-212 ^{ψψ}	Fluid Mechanics - II	3	3	4
CE-209 ^ψ	Geo-Technical Engineering - I	2	3	3
CE-207 ^{ψψ}	Surveying - II	3	3	4
CE-201 ^{ψψ}	Mechanics of Solids - II	3	0	3
BSI-351	Probability & Statistics	3	0	3
Total Contact Hours		14	9	
Total Credit Hours		14	3	17

Semester 6		Contact hours		Credit hours
No.	Course	Lecture	Lab.	Total
CE-320 ^ψ	Reinforced Concrete Design-I	3	0	3
CE-301 ^{ψψ}	Structural Analysis - II (Matrix Methods)	3	0	3
CE-414	Hydrology & Water Management	3	0	3
CE-319	Foundation Engineering	3	0	3
CE-310 ^ψ	Transportation Engineering-I	3	0	3
CE-408 ^{ψψ}	Environmental Engineering-II	3	0	3
Total Contact Hours		18	0	
Total Credit Hours		18	0	18

Semester 8		Contact hours		Credit hours
No.	Course	Lecture	Lab.	Total
CE-412	Intro to Structural Dynamics and EQ Engg.	3	0	3
CE-421	Quantity Surveying & Civil Engg. Practice	3	0	3
CE-416 ^{ψψ}	Reinforced Concrete Design-II	3	0	3
CE-402	Irrigation Engineering	3	0	3
CE-411	Project	0	9	3
Total Contact Hours		12	9	
Total Credit Hours		12	3	15

^ψ Pre-requisites for ^{ψψ} courses