

Department of Civil Engineering

Curriculum for the Degree of Bachelor of Science in Civil Engineering

COURSE CODE	COURSE TITLE	CREDITS
Semester I (Fall)		
2010115	Physics I	3
1914101	Calculus I	4
1610101	Engineering Drawing	2
2510111	General English for Engineers	3
2010116	Physics Lab I	1
-	General Courses	4
Semester II (Spring)		
2010125	Physics II	3
1914102	Calculus II	4
1210108	Engineering Geology I	2
1610102	Statics	3
1610119	Surveying	2
-	General Courses	4
Semester III (Fall)		
1730150	Computer Programming	3
1914251	Differential Equations	3
1610205	Dynamics	2
1610120	Field Work for Surveying	1
1610200	Building Materials	2
1612210	Strength of Materials	4
-	General Courses	3
Semester IV(Spring)		
1610222	Principles of Architecture and Urban Planning	2
1912291	Engineering Statistics and Probability	3
1614226	Fluid Mechanics I	3
1616330	Soil Mechanics	3
1612224	Structural Analysis I	3
1612334	Concrete Technology	2
-	General Courses	2
Semester V (Fall)		
1610324	Architectural Design	2
1614308	Hydraulics	2
1616320	Highway Engineering	2
1612312	Structural Analysis II	2
1610300	Building Materials Lab	1
1612302	Steel Structures Design I	3
1614315	Environmental Engineering	2
1610316	English for Civil Engineering	2
1612402	Strength of Materials Lab	1
Semester VI(Spring)		
1614330	Engineering Hydrology	2
1614342	Fluid Mechanics Lab	1
1914271	Elementary Numerical Methods	2
1612348	Design of Concrete Structures I	3
1616356	Highway Engineering Project	1
1612344	Loading	2
1616360	Soil Mechanics Lab	1
1612334	Steel Structures Design II	3
1616406	Foundation Engineering	2
-	Elective Courses	2

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Semester VII (Fall)

1614404	Water & Wastewater Systems	3
1612418	Steel Structures Project	1
1612427	Design of Concrete Structures II	3
1612413	Construction of Buildings & workshop	2
-	General Courses	2
-	Elective Courses	6

Semester VIII (Spring)

1612457	Earthquake Engineering	3
1612436	Reinforced Concrete Project	1
1610424	Estimation of Project	2
1614425	Water and Wastewater Project	1
1616475	Pavement Design	3
1614432	Water Distribution Systems	3
-	General Courses	2
-	Elective Courses	2

Elective Courses

(Water Engineering)

1614373	Chemistry and Microbiology of Water & Wastewater	3
1614486	Groundwater	2
1616362	Road Building Machinery & Methods	2
1614371	Statistical Hydrology	2
1614236	Fluid Mechanics II	2
1614441	Hydraulics Machinery & Pump Stations	2
1614380	Purification Processes of Water & Wastewater	3
1614373	Principles of Harbor Engineering	2
1614463	Small Dams	2

Elective Courses

(Geotechnical Engineering)

1616362	Road Building Machinery & Methods	2
1616317	Applied Geotechnics	2
1616435	Traffic Engineering	2
1616437	Tunneling	3
1616431	Earth Dams	2
1616373	Railway Engineering	2
1616371	Foundation Engineering II	2

Elective Courses

(Structural Engineering)

1612484	Matrix Analysis of Structures	3
1612459	Plastic Analysis and Design of structures	3
1612470	Bridge Engineering	3
1612471	Prestressed Concrete	3
1610134	Welding Workshop	1
1612339	Strength of Materials II	2