

BACHELOR OF SCIENCE IN CIVIL ENGINEERING (BScCE)

Course Distribution Per Semester

A/A	Course Type	Course Name	Course Code	Periods Per Week	Period Duration in minutes	Number Of Weeks/Academic Semester	Total Hours / Academic Semester	Number of ECTS
Academic Year 2023-2024 / 1st Semester								
1.	Compulsory	Linear Algebra	CS233	3	50	13	39	6
2.	Compulsory	Programming Principles I	CS112	3	50	13	39	6
3.	Compulsory	Architectural / Technical Drawing	ARCHSV101	3	50	13	39	6
4.	Compulsory	Engineering Physics	ENGR120	3	50	13	39	6
5.	Compulsory	Technical Terminology and Reports (Technical English)	ENGR150	3	50	13	39	3
6.	Elective	Free Elective	GENE100	-	-	-	-	3

A/A	Course Type	Course Name	Course Code	Periods Per Week	Period Duration in minutes	Number Of Weeks/Academic Semester	Total Hours / Academic Semester	Number of ECTS
Academic Year 2023-2024 / 2nd Semester								
7.	Compulsory	Calculus I	MATH120	3	50	13	39	6
8.	Core/Compulsory	Building Technology - Structural Components	ARCHBT102	3	50	13	39	6
9.	Compulsory	Professional Engineering	ENGR100	3	50	13	39	3



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10.	Compulsory	Principles of Ecology and Environmental Chemistry	ENGR130	3	50	13	39	6
11.	Compulsory	Computer Aided Design	ENGR140	3	50	13	39	3
12.	Core/Compulsory	Land Surveying	CE100	3	50	13	39	6

A/A	Course Type	Course Name	Course Code	Periods Per Week	Period Duration in minutes	Number Of Weeks/Academic Semester	Total Hours / Academic Semester	Number of ECTS
Academic Year 2023-2024 / 3 rd Semester								
13.	Compulsory	Calculus II	MATH220	3	50	13	39	6
14.	Compulsory	Computational Numerical Analysis	CS355	3	50	13	39	6
15.	Compulsory	Fluid Mechanics	ENGR220	3	50	13	39	6
16.	Core/Compulsory	Strength of Materials	CE205	3	50	13	39	6
17.	Core/Compulsory	Structural Analysis I	CE210	3	50	13	39	6

A/A	Course Type	Course Name	Course Code	Periods Per Week	Period Duration in minutes	Number Of Weeks/Academic Semester	Total Hours / Academic Semester	Number of ECTS
Academic Year 2023-2024 / 4 th Semester								
18.	Compulsory	Statistics I	STAT103	3	50	13	39	6
19.	Core/Compulsory	Structural Analysis II	CE220	3	50	13	39	6
20.	Core/Compulsory	Engineering Geology	CE230	3	50	13	39	6
21.	Core/Compulsory	Engineering Materials	CE240	3	50	13	39	6
22.	Elective	Free Elective	GENE200	-	-	-	-	6



A/A	Course Type	Course Name	Course Code	Periods Per Week	Period Duration in minutes	Number Of Weeks/Academic Semester	Total Hours / Academic Semester	Number of ECTS
Academic Year 2023-2024 / 5 th Semester								
23.	Core/Compulsory	Highway Engineering	CE300	3	50	13	39	6
24.	Core/Compulsory	Soil Mechanics	CE310	3	50	13	39	6
25.	Core/Compulsory	Reinforced Concrete Design I	CE320	3	50	13	39	6
26.	Core/Compulsory	Structural Dynamics	CE350	3	50	13	39	6
27.	Core/Compulsory	Hydraulics	CE380	3	50	13	39	6

A/A	Course Type	Course Name	Course Code	Periods Per Week	Period Duration in minutes	Number Of Weeks/Academic Semester	Total Hours / Academic Semester	Number of ECTS
Academic Year 2023-2024 / 6 th Semester								
28.	Core/Compulsory	Foundation Engineering	CE330	3	50	13	39	6
29.	Core/Compulsory	Transportation Planning	CE340	3	50	13	39	6
30.	Core/Compulsory	Steel Design I	CE360	3	50	13	39	6
31.	Core/Compulsory	Earthquake Engineering	CE370	3	50	13	39	6
32.	Core/Compulsory	Engineering Hydrology	CE390	3	50	13	39	6

A/A	Course Type	Course Name	Course Code	Periods Per Week	Period Duration in minutes	Number Of Weeks/Academic Semester	Total Hours / Academic Semester	Number of ECTS
Academic Year 2023-2024 / 7 th Semester								
33.	Core/Compulsory	Environmental Engineering	CE410	3	50	13	39	6



34.	Core/Elective	Specialization Elective		3	50	13	39	6
35.	Core/Elective	Specialization Elective		3	50	13	39	6
36.	Core/Elective	Specialization Elective		3	50	13	39	6
37.	Placement (or Elective)	Placement (or Free Elective) ¹	ENGR420 (or GENE400)	-	-	-	-	6

A/A	Course Type	Course Name	Course Code	Periods Per Week	Period Duration in minutes	Number Of Weeks/Academic Semester	Total Hours / Academic Semester	Number of ECTS
Academic Year 2023-2024 / 8 th Semester								
38.	Research/Compulsory	Dissertation	CE400	-	-	-	-	15
39.	Core/Elective	Specialization Elective		3	50	13	39	6
40.	Compulsory	Construction Management	CONS406	3	50	13	39	6
41.	Compulsory	Construction Law and Practice	ENGR410	3	50	13	39	3

Explanations (in needed):

GENE	Free Elective Course (General Education Course)
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¹ When a Placement is not feasible a 6 ECTS Free Elective Course is chosen

Specialization Elective Courses (Concentration Courses)

Course Type	Course Name	Course Code	Periods Per Week	Period Duration in minutes	Number Of Weeks/Academic Semester	Total Hours / Academic Semester	Number of ECTS
Core/Elective	Reinforced Concrete Design II	CE420	3	50	13	39	6
Core/Elective	Structural Analysis III	CE430	3	50	13	39	6
Core/Elective	Steel Design II	CE440	3	50	13	39	6
Core/Elective	Finite Elements Methods	CE450	3	50	13	39	6
Core/Elective	Damage Assessment and Retrofitting	CE460	3	50	13	39	6
Core/Elective	Coastal and Offshore Engineering	CE470	3	50	13	39	6
Core/Elective	Environmental Sustainability	CE480	3	50	13	39	6
Core/Elective	Environmental Impact Assessment	CE485	3	50	13	39	6
Core/Elective	Water Resources Management	CE490	3	50	13	39	6
Core/Elective	Water Supply Networks	CE495	3	50	13	39	6