

Course Structure - BScEngHons Degree Programme Specializing in Civil Engineering

[Effective from E/22]

| Sem. | Courses | | | | | | | | | |
|-----------------------------------|---|---|--|---|--|--|---|--|--------------------------|--|
| S1 | CE1010 Engineering Mechanics (3) | CO1010 Programming for Engineers I (3) | EE1010 Electricity (3) | EF1010 English for Communication I (3) | MA1100 Ethics and Sustainability (2) | EM1010 Calculus I (4) | | | | |
| S2 | CE1110 Materials Science (3) | CE1120 Elementary Fluid Mechanics and Thermodynamics (3) | CE1130 Mechanics of Materials (3) | EM1020 Linear Algebra (3) | EM1030 Differential Equations (2) | ME1020 Engineering Drawing (2) | MI1010 Fundamentals of Manufacturing (2) | | | |
| S3 | CE2010 Structural Analysis I (2) | CE2020 Fluid Mechanics (3) | CE2040 Soil Mechanics and Engineering Geology I (3) | CE2050 Land Surveying Techniques (1) | EE2810 Essentials of Electrical Engineering for Civil Engineers (2) | EM2010 Calculus II (2) | EM2020 Probability and Statistics (2) | ME2810 Mechanical Engineering for Civil Engineers (2) | General Elective-1 (2) | |
| S4 | CE2110 Structural Analysis II (2) | CE2120 Engineering Hydrology (3) | CE2130 Building Planning and Construction (3) | CE2140 Soil Mechanics and Engineering Geology II (3) | CE2150 Engineering Surveying (3) | CE2190 Civil Engineering Laboratory I (1) | EM2040 Numerical Methods for Civil Engineers (2) | MA2400 Management for Civil Engineers (2) | | |
| Industrial Training Seg. 1 | | | | | | | | | | |
| S5 | CE3010 Plates and Shells (2) | CE3020 Design of concrete structures (3) | CE3030 Design of Steel Structures (2) | CE3040 Economics, Finance and Entrepreneurship (2) | CE3050 Hydraulics (3) | CE3060 Environmental Engineering (3) | CE3070 Geotechnical Engineering and Design I (3) | CE3090 Civil Engineering Laboratory II (1) | General Elective-2 (2) | |
| S6 | CE3110 Finite Element Methods in Solid Mechanics (3) | CE3120 Timber/Masonry Design (2) | CE3130 Design of Pressed and Water Retaining Structures (2) | CE3150 Hydraulic Engineering and Design (3) | CE3170 Geotechnical Engineering and Design II (2) | CE3180 Transportation and Highway Engineering (3) | CE3190 Civil Engineering Laboratory III (1) | Technical Elective-1 (2) | Technical Elective-2 (2) | CE3160 Civil Engineering Field Work (3) |
| Industrial Training Seg. 2 | | | | | | | | | | |
| S7 | CE4010 Research Project (3) [Cont. to S8] | CE4020 Integrated Design Project (1) [Cont. to S8] | CE4030 Construction Management (2) | Technical Elective-3 (2) | Technical Elective-4 (2) | Technical Elective-5 (2) | Technical Elective-6 (2) | | | |
| S8 | CE4010 Research Project (3) [Cont. from S7] | CE4020 Integrated Design Project (3) [Cont. from S7] | CE4110 Construction Planning & Resource Management (2) | Technical Elective-7 (2) | Technical Elective-8 (2) | | | | | |

Credit load of each course in brackets (x)