

Curriculum Structure of Bachelor of Engineering (Civil)_ABP - AY 2020/21

| Year | Course | AU | Course | AU | Course | AU | Course | AU | Course | AU | Course | AU | Course | AU | Course | AU | TOTAL AU |
|-------------------|---|----|--|----|---|----|---|----|---|----|---|----|---|----|--|----|----------|
| Year 1 Semester 1 | MH1810 Mathematics 1 | 3 | PH1011 Physics <i>*Students w/o A-level Physics to do "PH1012 Physics A</i> | 3 | FE1073 An Introduction to Engineering & Practices | 1 | CV1011 Mechanics of Materials (Engineering Fundamentals 1) | 4 | HY0001 Ethics and Moral Reasoning | 1 | ET0001 Enterprise and Innovation | 1 | HW0188 Effective Communication <i>*HW0001</i> | 2 | GER - Elective (LA) | 3 | 18 |
| Year 1 Semester 2 | MH1811 Mathematics 2 <i>*MH1810</i> | 3 | CV1012 Fluid Mechanics | 3 | CV1014 Introduction To Computational Thinking | 3 | Engineering Fundamentals 2 | 3 | EG0001 Engineers & Society | 3 | CV0001 Civil Engineering and Sustainable Built Environment | 3 | GER - Elective (STS) | 3 | | | 21 |
| Year 2 Semester 1 | CV2011 Structural Analysis I <i>*CV1011</i> | 3 | CV2013 Engineering Geology & Soil Mechanics | 3 | CV2020 Water Resources Engineering <i>*CV1012</i> | 3 | CV2711 Civil Engineering Laboratory A | 1 | MH2814 Probability & Statistics <i>*MH1810</i> | 3 | CV0003 Introduction to Data Science and Artificial Intelligence <i>*CV1014</i> | 3 | GER - UE | 3 | GER - Elective (BM) | 3 | 22 |
| Year 2 Semester 2 | CV1013 Civil Engineering Materials | 3 | CV1711 Engineering Drawing and 3D Building Information Modelling | 1 | CV2012 Structural Analysis II <i>*CV2011</i> | 3 | CV2014 Geotechnical Engineering | 3 | CV2019 Matrix Algebra & Computational Methods | 3 | CV2712 Civil Engineering Laboratory B | 1 | CV3012 Steel Design <i>*CV2011</i> | 3 | ML0003 Kickstart your Career Success | 1 | 18 |
| Year 3 Semester 1 | CV3011 Reinforced Concrete Design <i>*CV2011</i> | 3 | CV3013 Foundation Engineering <i>*CV2013 & CV2014</i> | 3 | CV3014 Transportation Engineering | 3 | CV3015 Environmental Engineering <i>*CV1012</i> | 3 | CV4011 Project Planning & Management <i>*Year 4 Standing</i> | 3 | CV4711 Seminars & Site Visits | 1 | CV4XXX Major Prescribed Elective <i>*Refer to Syllabus</i> | 3 | HW0288 Engineering Communication <i>*HW0188</i> | 2 | 21 |
| Year 3 Semester 2 | CV3016 Construction Technology & Processes | 3 | CV4911 Final Year Project <i>*Year 4 Standing</i> | 4 | CV4912 Integrated Design Project <i>*Year 4 Standing</i> | 3 | CV4XXX Major Prescribed Elective <i>*Refer to Syllabus</i> | 3 | CV4XXX Major Prescribed Elective <i>*Refer to Syllabus</i> | 3 | GER - UE | 3 | GER - UE | 3 | GER - UE | 3 | 25 |
| Year 4 Semester 1 | CV3914 Professional Internship | 10 | <i>* Year 3 Standing & Completed at least 4 Semesters of study</i> | | | | | | | | | | CV4911 Final Year Project <i>*Year 4 Standing</i> | 4 | | | 14 |

** pre-requisite*

Total AU for Graduation 139

GER : General Education Requirement

GER-Core

GER-Prescribed Elective

GER-Unrestricted Elective

Last Updated : 6-Jan-21