

Curriculum Structure of Bachelor of Engineering (Civil) - 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		19	
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	HW0288 Engineering Communication <i>*HW0188</i>	2	GER - Elective (BM)	3	GER - UE	3		20	
Year 3 Semester 2	CV3914 Professional Internship	10	<i>* Year 3 Standing & Completed at least 4 Semesters of study</i>													10	
Year 4 Semester 1	CV4011 Project Planning & Management <i>*Year 4 Standing</i>	3	CV4711 Seminars & Site Visits	1	CV4911 Final Year Project <i>*Year 4 Standing</i>	4	CV4XXX Major Prescribed Elective <i>*Refer to Syllabus</i>	3	GER - UE	3	GER - UE	3					17
Year 4 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							16

** pre-requisite*

Total AU for Graduation 139

GER : General Education Requirement

GER-Core

GER-Prescribed Elective

GER-Unrestricted Elective

Last Updated : 16-Apr-20