

Curriculum Structure of Bachelor of Engineering (Civil) with Second Major in Society & Urban Systems - Professional Attachment - AY2018/19

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	CV1011 Mechanics of Materials	4	PH1011 Physics <i>*Students w/o A-level Physics to do "PH1012 Physics A</i>	3	FE1073 An Introduction to Engineering & Practices	1	HE9091 Principles of Economics	3	GC0001 Sustainability: Seeing Through The Haze	1	HW0188 Engineering Communication I <i>*HW0001</i>	2	Society and Culture Course 1	3	20
Year 1 Semester 2	MH1811 Mathematics 2	3	CV1012 Fluid Mechanics	3	CV1013 Civil Engineering Materials	3	CV1014 Introduction To Computational Thinking	3	CV1711 Civil Engineering Drawing and 3D Building Information Modelling	1	GER-PE (STS) CV0001 Civil Engineering and Sustainable Built Environment (Compulsory)	3	Urban Economics & Public Policy Course 1 <i>*HE9091</i>	3			19
Year 2 Semester 1	CV2011 Structural Analysis I <i>*CV1011</i>	3	CV2013 Engineering Geology & Soil Mechanics	3	CV2015 Hydraulics <i>*CV1012</i>	3	MH2814 Probability & Statistics <i>*MH1810</i>	3	CV2711 Civil Engineering Laboratory A	1	Society and Culture Course 2	3	CV0003 Introduction to Data Science and Artificial Intelligence <i>*CV1014</i>	3	HY0001 Ethics and Moral Reasoning	1	20
Year 2 Semester 2	CV2012 Structural Analysis II <i>*CV2011</i>	3	CV2014 Geotechnical Engineering	3	CV2016 Hydrology	3	CV2019 Matrix Algebra & Computational Methods	3	CV2712 Civil Engineering Laboratory B	1	SU2001 Urban Planning & Design	3	Water and Environmental Management Course 1	3			19
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	SU3001 Integrated Urban Management	3	HW0288 Engineering Communication II <i>*HW0188</i>	2	ET0001 Enterprise and Innovation	1	ML0003 Kickstart Your Career Success	1	19
Year 3 Semester 2	CV3012 Steel Design <i>*CV2011</i>	3	CV3016 Construction Technology & Processes	3	CV4XXX Major Prescribed Elective <i>*Refer to Syllabus</i>	3	Society and Culture Course 3	3	Urban Economics & Public Policy Course 2 <i>*HE9091</i>	3	GER (Free Elective)	3					18
Special Semester	CV3915 Professional Attachment	5	← <i>* Year 3 Standing & Completed at least 4 Semesters of study</i>														5
Year 4 Semester 1	CV0002 Engineers & Society	3	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	Water and Environmental Management Course 2	3	Urban Economics & Public Policy Course 3 <i>*HE9091</i>	3					17
Year 4 Semester 2	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	SU4001 Leaders in Urban Systems and Policy	3	GER (Free Elective)	2					18

** pre-requisite*

Total AU for Graduation 155

GER-Prescribed Elective

Foundation Courses for SU

Specialized Courses for SU

GER-Core

Last Updated : 15-May-19