

## Curriculum Structure of Bachelor of Engineering (Environmental) with Second Major in Society & Urban Systems - 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	HE9091 Principles of Economics	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	EN0002 Environmental Issues and Sustainability	3	Urban Economics & Public Policy Course 1 <i>*HE9091</i>	3			21
Year 2 Semester 1	CV2011 Structural Analysis I <i>*CV1011</i>	3	CV2020 Water Resources Engineering <i>*CV1012</i>	3	EN1001 Environmental Chemistry	3	EN2004 Soil Mechanics	3	EN2711 Environmental Engineering Laboratory A	1	MH2814 Probability & Statistics <i>*MH1810</i>	3	CV0003 Introduction to Data Science and Artificial Intelligence <i>*CV1014</i>	3	Society and Culture Course 1	3	22
Year 2 Semester 2	CV1711 Engineering Drawing and 3D Building Information Modelling	1	EN2002 Environmental Biology and Microbiology	3	EN2003 Water Supply Engineering <i>*CV1012</i>	3	EN2712 Environmental Engineering Laboratory B	1	EN3003 Environmental Transport Processes	3	ML0003 Kickstart your Career Success	1	SU2001 Urban Planning & Design	3	Water and Environmental Management Course 1	3	18
Year 3 Semester 1	EN3001 Solid & Hazardous Waste Management <i>*Year 3 Standing</i>	3	EN3002 Wastewater Engineering <i>*Year 3 Standing</i>	3	EN3004 Air Pollution Control Engineering <i>*Year 3 Standing</i>	3	EN3006 Energy Resource Engineering	3	HW0288 Engineering Communication <i>*HW0188</i>	2	SU3001 Integrated Urban Management	3	Urban Economics & Public Policy Course 2 <i>*HE9091</i>	3			20
Year 3 Semester 2	EN4XXX Major Prescribed Elective <i>*Refer to Syllabus</i>	3	EN4XXX Major Prescribed Elective <i>*Refer to Syllabus</i>	3	Urban Economics & Public Policy Course 3 <i>*HE9091</i>	3	Society and Culture Course 2	3	GER-UE	3							15
Special Semester	EN3915 Professional Attachment	5	<i>*Year 3 Standing &amp; Completed at least 4 Semesters of study</i>														5
Year 4 Semester 1	CV4011 Project Planning & Management <i>*Year 4 Standing</i>	3	EN4001 Environmental Impact Analysis & Monitoring	3	EN4711 Seminars & Site Visits	1	EN4911 Final Year Project <i>*Year 4 Standing</i>	4	EN4XXX Major Prescribed Elective <i>*Refer to Syllabus</i>	3	GER-UE	2					16
Year 4 Semester 2	EN4002 Environmental Systems Analysis	3	EN4911 Final Year Project <i>*Year 4 Standing</i>	4	EN4912 Integrated Design Project <i>*Year 4 Standing</i>	3	SU4001 Leaders in Urban Systems and Policy	3									13

*\* pre-requisite*

**Total AU for Graduation 148**

GER : General Education Requirement

GER-Core

2nd Major SU Courses

GER-Unrestricted Elective

Last Updated : 30-Apr-20