

**Curriculum Structure of Bachelor of Engineering (Environmental) with Second Major in Society & Urban Systems - Professional Attachment - AY 2019/20**

Year	Course	AU	Course	AU	Course	AU	Course	AU	Course	AU	Course	AU	Course	AU	Course	AU	TOTAL AU
<b>Year 1 Semester 1</b>	EN2001 Environmental Issues in a Changing World	3	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	HE9091 Principles of Economics	3	Society and Culture Course 1	3	HY0001 Ethics and Moral Reasoning	1	HW0188 Engineering Communication I <i>*HW0001</i>	2	19
<b>Year 1 Semester 2</b>	MH1811 Mathematics 2	3	CV1012 Fluid Mechanics	3	CV1014 Introduction To Computational Thinking	3	CV1711 Engineering Drawing and 3D Building Information Modelling	1	EN1001 Environmental Chemistry	3	EN0001 Sustainability Practices for Urban and Marine Environment	3	Urban Economics & Public Policy Course 1 <i>*HE9091</i>	3			19
<b>Year 2 Semester 1</b>	CV1011 Mechanics of Materials	4	CV2013 Engineering Geology & Soil Mechanics	3	CV2015 Hydraulics <i>*CV1012</i>	3	EN2002 Environmental Biology and Microbiology	3	EN2711 Environmental Engineering Laboratory A	1	Urban Economics & Public Policy Course 2 <i>*HE9091</i>	3	CV0003 Introduction to Data Science and Artificial Intelligence <i>*CV1014</i>	3			20
<b>Year 2 Semester 2</b>	CV2011 Structural Analysis I <i>*CV1011</i>	3	CV2016 Hydrology	3	CV2019 Matrix Algebra & Computational Methods	3	EN2003 Water Supply Engineering <i>*CV1012</i>	3	EN2712 Environmental Engineering Laboratory B	1	SU2001 Urban Planning & Design	3	Society and Culture Course 2	3			19
<b>Year 3 Semester 1</b>	EN3001 Solid & Hazardous Waste Management <i>*Year 3 Standing</i>	3	EN3002 Wastewater Engineering <i>*Year 3 Standing</i>	3	EN3003 Environmental Transport Processes <i>*Year 3 Standing</i>	3	MH2814 Probability & Statistics <i>*MH1810</i>	3	SU3001 Integrated Urban Management	3	HW0288 Engineering Communication II <i>*HW0188</i>	2	ML0003 Kickstart Your Career Success	1			18
<b>Year 3 Semester 2</b>	CV0002 Engineers & Society	3	CV3016 Construction Technology & Processes	3	EN3004 Air Pollution Control Engineering <i>*Year 3 Standing</i>	3	EN4XXX Major Prescribed Elective <i>*Refer to Syllabus</i>	3	Society and Culture Course 3	3	Water and Environmental Management Course 1	3					18
<b>Special Semester</b>	EN3915 Professional Attachment	5	← <i>*Year 3 Standing &amp; Completed at least 4 Semesters of study</i>														5
<b>Year 4 Semester 1</b>	CV4011 Project Planning & Management <i>*Year 4 Standing</i>	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	ET0001 Enterprise and Innovation	1	Water and Environmental Management Course 2	3	GER-UE	3			18
<b>Year 4 Semester 2</b>	EN4911 Final Year Project <i>*Year 4 Standing</i>	4	EN4912 Integrated Design Project <i>*Year 4 Standing</i>	3	EN4XXX Major Prescribed Elective <i>*Refer to Syllabus</i>	3	SU4001 Leaders in Urban Systems and Policy	3	Urban Economics & Public Policy Course 3 <i>*HE9091</i>	3	GER-UE	2					18

*\* pre-requisite*

**Total AU for Graduation 154**

GER : General Education Requirement

GER-Core

SU Courses

GER-Unrestricted Elective

Last Updated : 28-Feb-19