

**AY2025-26 CURRICULUM FOR BACHELOR OF ENGINEERING (ENVIRONMENTAL ENGINEERING)  
& BACHELOR OF SOC SCI (ECONOMICS) WITH PROFESSIONAL INTERNSHIP  
(FIRST YEAR ADMISSION)**

Last Updated : 2-Jul-25

SUMMARY OF ACADEMIC UNIT REQUIREMENT							
Year of Study	Major Requirements		Interdisciplinary Collaborative Core			Broadening & Deepening Electives	Total AU
	Core	Major PE	Common Core	Professional Series	Care, Serve, Learn		
1	35	0	6	0	0	0	41
2	23	3	8	3	3	0	40
3	18	0	0	13	0	0	31
4	17	15	0	0	0	0	32
5	8	18	0	0	0	2	28
<b>Total</b>	<b>101</b>	<b>36</b>	<b>14</b>	<b>16</b>	<b>3</b>	<b>2</b>	<b>172</b>

\* Students without 'A' Level Physics will take 'PH1012 Physics A' (4AU).

YEAR 1 SEMESTER 1				
Course Code	Course Title	Type	AU	Pre-Requisite
MH1810	Mathematics 1	C	3	
PH1011	Physics*	C	3	
FE1073	An Introduction to Engineering & Practices	C	1	
CV1011	Mechanics of Materials	C	4	
CV1012	Fluid Mechanics	C	3	
CV1711	Engineering Drawing and 3D Building Information Modelling	C	1	
HE1001	Microeconomics I	C	3	
CC0001	Inquiry and Communication in an Interdisciplinary World	CC	2	
			<b>20</b>	

YEAR 1 SEMESTER 2				
Course Code	Course Title	Type	AU	Pre-Requisite
MH1811	Mathematics 2	C	3	MH1810
CV1014	Introduction To Computational Thinking	C	3	
CV2020	Water Resources Engineering	C	3	CV1012
EN2002	Microbiological Principles of Environmental Engineering	C	3	
EG1001	Engineers In Society	C	2	
HE2001	Microeconomics II	C	3	HE1001
CC0003	Ethics & Civics in a Multi-Cultural World	CC	2	
CC0015	Health & Wellbeing	CC	2	
			<b>21</b>	

YEAR 2 SEMESTER 1				
Course Code	Course Title	Type	AU	Pre-Requisite
EN1001	Environmental Chemistry	C	3	
EN2004	Geo-Environment and Soil Mechanics	C	3	
EN2711	Environmental Engineering Laboratory A	C	1	
HE1002	Macroeconomics I	C	3	
CV0003	Introduction to Data Science and Artificial Intelligence	PS	3	CV1014
CC0006	Sustainability: Society, Economy & Environment	CC	3	
ML0004	Career Design & Workplace Readiness in the V.U.C.A World	CC	2	
			<b>18</b>	

YEAR 2 SEMESTER 2				
Course Code	Course Title	Type	AU	Pre-Requisite
EN2003	Water Supply Engineering	C	3	CV1012
EN2005	Environmental Health and Safety Management	C	3	
EN2712	Environmental Engineering Laboratory B	C	1	
EN3003	Environmental Transport Processes	C	3	
HE2002	Macroeconomics II	C	3	HE1002
MH1820	Introduction to Probability and Statistical Methods	MPE	3	Compulsory
CC0007	Science and Technology for Humanity	CC	3	
	Service Learning	CSL	3	

			<b>22</b>	
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YEAR 3 SEMESTER 1				
Course Code	Course Title	Type	AU	Pre-Requisite
EN3001	Solid & Hazardous Waste Management	C	3	Year 3 Standing
EN3002	Wastewater Engineering	C	3	Year 3 Standing
EN3004	Air Pollution Control Engineering	C	3	Year 3 Standing
EN3006	Energy Resource Engineering	C	3	
HE2003	Econometrics I	C	3	MH1820
HE3001	Microeconomics III	C	3	HE2001
HW0288	Engineering Communication	PS	2	CC0001
MLxxxx	Profession Preparation	PS	1	
			<b>21</b>	

YEAR 3 SEMESTER 2				
Course Code	Course Title	Type	AU	Pre-Requisite
EN3920	Professional Internship	PS	10	Year 3 standing & completed at least 4 semesters of study
			<b>10</b>	

YEAR 4 SEMESTER 1				
Course Code	Course Title	Type	AU	Pre-Requisite
CV4012	Project Planning & Management	C	2	Year 4 Standing
EN4001	Environmental Impact Analysis & Monitoring	C	3	
EN4711	Seminars on Built Environment	C	1	
HE3002	Macroeconomics III	C	3	HE2002
EN4XXX	Major Prescribed Elective	MPE	3	Refer to Syllabus
	Econs PE 1	MPE	3	
	Econs PE 2	MPE	3	
			<b>18</b>	

YEAR 4 SEMESTER 2				
Course Code	Course Title	Type	AU	Pre-Requisite
EN4003	Environmental Systems Analysis	C	2	
EN4912	Integrated Design Project	C	3	Year 4 Standing
HE3003	Econometrics II	C	3	HE2003
	Econs PE 3	MPE	3	
	Econs PE 4	MPE	3	
			<b>14</b>	

YEAR 5 SEMESTER 1				
Course Code	Course Title	Type	AU	Pre-Requisite
EN4911	Final Year Project	C	4	Year 4 Standing
	Econs PE 5	MPE	3	
	Econs PE 6	MPE	3	
	Econs PE 7	MPE	4	
			<b>14</b>	

YEAR 5 SEMESTER 2				
Course Code	Course Title	Type	AU	Pre-Requisite
EN4911	Final Year Project	C	4	Year 4 Standing
	Econs PE 8	MPE	4	
	Econs PE 9	MPE	4	
	Broadening & Deepening Electives 1	BDE	2	
			<b>14</b>	

Total AU for Graduation : **172**