

**AY2025-26 CURRICULUM FOR BACHELOR OF ENGINEERING (ENVIRONMENTAL ENGINEERING)  
WITH UNIVERSITY SCHOLAR PROGRAMME  
(FIRST YEAR ADMISSION)**

Last Updated : 2-Jul-25

SUMMARY OF ACADEMIC UNIT REQUIREMENT									
Year of Study	Major Requirements		USP Requirements		Interdisciplinary Collaborative Core			Broadening & Deepening Electives	Total AU
	Core	MPE	USP Core	USP PE	Common Core	Professional Series	Care, Serve, Learn		
1	29	0	11	0	0	0	0	0	40
2	20	0	0	6	5	3	3	0	37
3	12	0	0	3	0	11	0	2	28
4	19	3	0	3	0	0	0	6	31
<b>Total</b>	<b>80</b>	<b>3</b>	<b>11</b>	<b>12</b>	<b>5</b>	<b>14</b>	<b>3</b>	<b>8</b>	<b>136</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	
SP0001	Writing and Reasoning	USP-C	3	
SP0008	Living Well	USP-C	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	
SP0002	Ethics	USP-C	3	
SP0007	Fieldwork and Documentation	USP-C	3	
			<b>20</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	
MH2814	Probability & Statistics	C	3	MH1810
CV0003	Introduction to Data Science and Artificial Intelligence	PS	3	CV1014
ML0004	Career Design & Workplace Readiness in the V.U.C.A World	CC	2	
	USP Prescribed Electives 1	USP-PE	3	
			<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	
SP0061	Science and Technology for Humanity	CC	3	
	Service Learning	CSL	3	
	USP Prescribed Electives 2	USP-PE	3	
			<b>19</b>	

YEAR 3 SEMESTER 1				
Course Code	Course Title	Type	AU	Pre-Requisite
EN3001	Solid & Hazardous Waste Management	C	3	CV2011
EN3002	Wastewater Engineering	C	3	CV2013 & CV2014
EN3004	Air Pollution Control Engineering	C	3	
EN3006	Energy Resource Engineering	C	3	CV1012
MLxxxx	Profession Preparation	PS	1	
	USP Prescribed Electives 3	USP-PE	3	
	Broadening & Deepening Electives 1	BDE	2	
			<b>18</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	
EN4911	Final Year Project	C	4	Year 4 Standing
EN4XXX	Major Prescribed Elective	MPE	3	Refer to Syllabus
	Broadening & Deepening Electives 2	BDE	3	
			<b>16</b>	

YEAR 4 SEMESTER 2				
Course Code	Course Title	Type	AU	Pre-Requisite
EN4003	Environmental Systems Analysis	C	2	
EN4911	Final Year Project	C	4	Year 4 Standing
EN4912	Integrated Design Project	C	3	Year 4 Standing
	USP Prescribed Electives 4	USP-PE	3	
	Broadening & Deepening Electives 3	BDE	3	
			<b>15</b>	

Total AU for Graduation : **136**