AY2025-26 CURRICULUM FOR BACHELOR OF ENGINEERING (ENVIRONMENTAL ENGINEERING) WITH SECOND MAJOR IN SUSTAINABILITY - PROFESSIONAL INTERNSHIP (FIRST YEAR ADMISSION)

Last Updated: 2-Jul-25

	SUMMARY OF ACADEMIC UNIT REQUIREMENT								
	Major Req	uirements	Interdiscip	linary Collaborati	ive Core	Broadening			
Year of Study	Core	Major PE	Common Core	Professional Series	Care, Serve, Learn	& Deepening Electives	Total AU		
1	29	0	6	0	0	0	35		
2	20	0	8	3	3	6	40		
3	12	0	0	13	0	6	31		
4	19	3	0	0	0	16	38		
Total	80	3	14	16	3	28	144		

^{*} Students without 'A' Level Physics will take 'PH1012 Physics A' (4AU).

[^] The Course will be double counted towards Primary Programme and Second Major in Sustainability

	YEAR 1 SEMESTER 1					
Course Code	Course Title	Type	AU	Pre-Requisite		
MH1810	Mathematics 1	С	3			
PH1011	Physics*	С	3			
FE1073	An Introduction to Engineering & Practices	С	1			
CV1011	Mechanics of Materials	С	4			
CV1012	Fluid Mechanics	С	3			
CV1711	Engineering Drawing and 3D Building Information Modelling	С	1			
CC0001	Inquiry and Communication in an Interdisciplinary World	CC	2			
			17			

YEAR 1 SEMESTER 2					
Course Code	Course Title	Туре	AU	Pre-Requisite	
MH1811	Mathematics 2	С	3	MH1810	
CV1014	Introduction To Computational Thinking	С	3		
CV2020	Water Resources Engineering	С	3	CV1012	
EN2002	Microbiological Principles of Environmental Engineering	С	3		
EG1001 ^	Engineers In Society	С	2		
CC0003	Ethics & Civics in a Multi-Cultural World	CC	2		
CC0015	Health & Wellbeing	CC	2		
			18		

	YEAR 2 SEMESTER 1					
Course Code	Course Title	Type	AU	Pre-Requisite		
EN1001	Environmental Chemistry	С	3			
EN2004	Geo-Environment and Soil Mechanics	С	3			
EN2711	Environmental Engineering Laboratory A	С	1			
MH2814	Probability & Statistics	С	3	MH1810		
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	СС	2			
			18			

YEAR 2 SEMESTER 2					
Course Code	Course Title	Туре	AU	Pre-Requisite	
EN2003	Water Supply Engineering	С	3	CV1012	

EN2005	Environmental Health and Safety Management	С	3	
EN2712	Environmental Engineering Laboratory B	С	1	
EN3003	Environmental Transport Processes	С	3	
CC0007	Science & Technology for Humanity	CC	3	
	Service Learning	CSL	3	
	Sustainability-Core	BDE-SN	3	Refer to Syllabus
	Sustainability-Core	BDE-SN	3	Refer to Syllabus
			22	

	YEAR 3 SEMESTER 1			
Course Code	Course Title	Type	AU	Pre-Requisite
EN3001	Solid & Hazardous Waste Management	С	3	Year 3 Standing
EN3002	Wastewater Engineering	С	3	Year 3 Standing
EN3004	Air Pollution Control Engineering	С	3	Year 3 Standing
EN3006	Energy Resource Engineering	С	3	
HW0288	Engineering Communication	PS	2	CC0001
MLxxxx	Profession Preparation	PS	1	
	Sustainability-Core	BDE-SN	3	Refer to Syllabus
	Sustainability-Elective	BDE-SN	3	Refer to Syllabus
			21	

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

	YEAR 4 SEMESTER 1			
Course Code	Course Title	Туре	AU	Pre-Requisite
CV4012	Project Planning & Management	С	2	Year 4 Standing
EN4001	Environmental Impact Analysis & Monitoring	С	3	
EN4711	Seminars on Built Environment	С	1	
EN4911	Final Year Project	С	4	Year 4 Standing
EN4XXX	Major Prescribed Elective	MPE	3	Refer to Syllabus
	Sustainability-Core	BDE-SN	3	Refer to Syllabus
	Sustainability-Elective	BDE-SN	3	Refer to Syllabus
			19	

	YEAR 4 SEMESTER 2					
Course Code	Course Title	Type	AU	Pre-Requisite		
EN4003	Environmental Systems Analysis	С	2			
EN4911	Final Year Project	С	4	Year 4 Standing		
EN4912	Integrated Design Project	С	3	Year 4 Standing		
	Sustainability-Interdisciplinary Project	BDE-SN	3	Refer to Syllabus		
	Sustainability-Elective	BDE-SN	4	Refer to Syllabus		
	Sustainability-Elective	BDE-SN	3	Refer to Syllabus		
			19			

Total AU for Graduation: 144