## AY2025-26 CURRICULUM FOR BACHELOR OF ENGINEERING (ENVIRONMENTAL ENGINEERING) WITH WORK STUDY DEGREE PROGRAMME (FIRST YEAR ADMISSION)

Last Updated: 2-Jul-25

SUMMARY OF ACADEMIC UNIT REQUIREMENT										
	Major Red	uirements	Interdiscip	linary Collaborat	ive Core	Broadening				
Year of Study	udy Core Major PE Common Core Professional Care, Serv		Care, Serve,	& Deepening	Total AU					
	Core	Major PE	Common Core	Series	Learn	Electives				
1	29	0	6	0	0	0	35			
2	20	0	8	3	3	7	41			
3	12	0	0	13	0	5	30			
4	19	3	0	0	0	8	30			
Total	80	3	14	16	3	20	136			

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

	YEAR 1 SEMESTER 1				
<b>Course Code</b>	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				
<b>Course Code</b>	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					
<b>Course Code</b>	Course Title	Туре	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	CC	2		
			18		

	YEAR 2 SEMESTER 2				
<b>Course Code</b>	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 and Technology for Humanity	CC	3		
	Service Learning	CSL	3		
	Broadening & Deepening Electives 1	BDE	2		
			18		

YEAR 2 SPECIAL SEMESTER				
<b>Course Code</b>	Course Title	Туре	AU	Pre-Requisite
EN2910	Professional Attachment 1	BDE	5	Year 2 standing
			5	

YEAR 3 SEMESTER 1				
<b>Course Code</b>	Course Title	Туре	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	
			15	

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

YEAR 3 SPECIAL SEMESTER					
<b>Course Code</b>	Course Title	Туре	AU	Pre-Requisite	
EN3921	Professional Attachment 2	BDE	5	Year 3 standing	
			5		

YEAR 4 SEMESTER 1				
Course Code	Course Title	Type	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	
EN4914	Work Study Degree Final Year Project	С	4	Year 4 Standing
EN4XXX	Major Prescribed Elective	MPE	3	Refer to Syllabus
	Broadening & Deepening Electives 2	BDE	2	
			15	

YEAR 4 WINTER SEMESTER				
<b>Course Code</b>	Course Title	Туре	AU	Pre-Requisite
EN4910	Professional Attachment (Winter)	BDE	3	Year 4 standing
			3	

YEAR 4 SEMESTER 2				
<b>Course Code</b>	Course Title	Туре	AU	Pre-Requisite
EN4003	Environmental Systems Analysis	С	2	
EN4914	Work Study Degree Final Year Project	С	4	Year 4 Standing
EN4912	Integrated Design Project	С	3	Year 4 Standing
	Broadening & Deepening Electives 3	BDE	3	
			12	

Total AU for Graduation : 136