## AY2023-24 CURRICULUM FOR BACHELOR OF ENGINEERING (ENVIRONMENTAL ENGINEERING) WITH SECOND MAJOR IN SOCIETY & URBAN SYSTEMS - PROFESSIONAL ATTACHMENT (FIRST YEAR ADMISSION)

Last Updated: 22-Feb-24

SUMMARY OF ACADEMIC UNIT REQUIREMENT							
Year of Study	r of Study Core MPE CC FC					Total AU	
1	26	0	9	0	3	38	
2	23	0	8	0	9	40	
3	12	3	0	10	15	40	
4	19	0	0	0	8	27	
Total	80	3	17	10	35	145	

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

	YEAR 1 SEMESTER 1					
<b>Course Code</b>	Course Title	Туре	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			
HE9091	Principles of Economics	BDE	3			
CC0001	Inquiry and Communication in the Interdisciplinary World	CC	2			
CC0002	Navigating the Digital World	CC	2			
			21			

	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		
CV1711	Engineering Drawing and 3D Building Information Modelling	С	1		
CV2020	Water Resources Engineering	С	3	CV1012	
EG1001	Engineers In Society	С	2		
CC0003	Ethics & Civics in a Multi-Cultural World	CC	2		
CC0005	Healthy Living & Wellbeing	CC	3		
			17		

	YEAR 2 SEMESTER 1				
<b>Course Code</b>	Course Title	Туре	AU	Pre-Requisite	
EN1001	Environmental Chemistry	С	3		
EN2004	Soil Environment and Soil Mechanics	С	3		
EN2711	Environmental Engineering Laboratory A	С	1		
MH2814	Probability & Statistics	С	3	MH1810	
	Urban Economics & Public Policy 1	BDE	3	HE9091	
CC0006	Sustainability: Society, Economy & Environment	CC	3		
ML0004	Career and Entrepreneurial Development for the Future World	CC	2		
			18		

	YEAR 2 SEMESTER 2					
<b>Course Code</b>	Course Title	Туре	AU	Pre-Requisite		
EN2002	Environmental Biology and Microbiology	С	3			
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			
SU2001	Urban Planning & Design	BDE	3			
	Society and Culture 1	BDE	3			

ENG 1

CC0007	Science & Technology for Humanity	CC	3	
			22	

YEAR 3 SEMESTER 1				
<b>Course Code</b>	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	
CV0003	Introduction to Data Science and Artificial Intelligence	FC	3	CV1014
HW0288	Engineering Communication	FC	2	CC0001
SU3001	Integrated Urban Management	BDE	3	
			20	

	YEAR 3 SEMESTER 2					
Course Code	Course Title	Туре	AU	Pre-Requisite		
EN4XXX	Major Prescribed Elective	MPE	3	Refer to Syllabus		
SU4001	Leaders in Urban Systems and Policy	BDE	3			
	Urban Economics & Public Policy 2	BDE	3	HE9091		
	Society and Culture 2	BDE	3			
	Broadening & Deepening Electives 1	BDE	3			
			15			

	YEAR 3 SPECIAL SEMESTER			
<b>Course Code</b>	Course Title	Type	AU	Pre-Requisite
EN3910	Professional Attachment	FC	5	Year 3 standing &
				completed at least 4
				semesters of study
			5	

	YEAR 4 SEMESTER 1				
<b>Course Code</b>	Course Title	Туре	AU	Pre-Requisite	
CV4012	Project Planning & Management	С	2	Year 4 Standing	
EN4001	Environmental Impact Analysis & Monitoring	С	3		
EN4711	Seminars & Site Visits	С	1		
EN4911	Final Year Project	С	4	Year 4 Standing	
	Broadening & Deepening Electives 2	BDE	2		
			12		

YEAR 4 SEMESTER 2					
Course Title	Туре	AU	Pre-Requisite		
Environmental Systems Analysis	С	2			
Final Year Project	С	4	Year 4 Standing		
Integrated Design Project	С	3	Year 4 Standing		
Urban Economics & Public Policy 2	BDE	3	HE9091		
Water and Environmental Management 1	BDE	3			
		15			
	Course Title  Environmental Systems Analysis  Final Year Project  Integrated Design Project  Urban Economics & Public Policy 2	Course TitleTypeEnvironmental Systems AnalysisCFinal Year ProjectCIntegrated Design ProjectCUrban Economics & Public Policy 2BDE	Course TitleTypeAUEnvironmental Systems AnalysisC2Final Year ProjectC4Integrated Design ProjectC3Urban Economics & Public Policy 2BDE3Water and Environmental Management 1BDE3		

Total AU for Graduation : 145

ENG 2