

**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-23

SUMMARY OF ACADEMIC UNIT REQUIREMENT						
Year of Study	Core	MPE	CC	FC	BDE	Total AU
1	26	0	9	0	6	41
2	23	0	8	0	9	40
3	12	3	0	10	15	40
4	19	0	0	0	5	24
Total	80	3	17	10	35	145

* 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	
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				
Course Code	Course Title	Type	AU	Pre-Requisite
MH1811	Mathematics 2	C	3	MH1810
CV1014	Introduction To Computational Thinking	C	3	
CV1711	Engineering Drawing and 3D Building Information Modelling	C	1	
CV2020	Water Resources Engineering	C	3	CV1012
EG1001	Engineers In Society	C	2	
	Urban Economics & Public Policy 1	BDE	3	HE9091
CC0003	Ethics & Civics in a Multi-Cultural World	CC	2	
CC0005	Healthy Living & Wellbeing	CC	3	
			20	

YEAR 2 SEMESTER 1				
Course Code	Course Title	Type	AU	Pre-Requisite
CV2011	Structural Analysis I	C	3	CV1011
EN1001	Environmental Chemistry	C	3	
EN2004	Soil Environment and Soil Mechanics	C	3	
EN2711	Environmental Engineering Laboratory A	C	1	
MH2814	Probability & Statistics	C	3	MH1810
	Society and Culture 1	BDE	3	
CC0006	Sustainability: Society, Economy & Environment	CC	3	
ML0004	Career and Entrepreneurial Development for the Future World	CC	2	
			21	

YEAR 2 SEMESTER 2				
Course Code	Course Title	Type	AU	Pre-Requisite
EN2002	Environmental Biology and Microbiology	C	3	

EN2003	Water Supply Engineering	C	3	CV1012
EN2712	Environmental Engineering Laboratory B	C	1	
EN3003	Environmental Transport Processes	C	3	
SU2001	Urban Planning & Design	BDE	3	
	Water and Environmental Management 1	BDE	3	
CC0007	Science & Technology for Humanity	CC	3	
			19	

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	
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	Type	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				
Course Code	Course Title	Type	AU	Pre-Requisite
EN3915	Professional Attachment	FC	5	Year 3 standing & completed at least 4 semesters of study
			5	

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 & Site Visits	C	1	
EN4911	Final Year Project	C	4	Year 4 Standing
	Broadening & Deepening Electives 2	BDE	2	
			12	

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
	Urban Economics & Public Policy 3	BDE	3	HE9091
			12	

Total AU for Graduation : **145**