

**AY2021-22 CURRICULUM FOR BACHELOR OF ENGINEERING (ENVIRONMENTAL ENGINEERING)
WITH SECOND MAJOR IN ENTREPRENEURSHIP - PROFESSIONAL INTERNSHIP
(FIRST YEAR ADMISSION)**

Last Updated : 20-Jan-22

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	6	37
3	12	0	0	10	8	30
4	19	3	0	0	10	32
Total	80	3	17	10	30	140

* 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	
CC0001	Inquiry and Communication in the Interdisciplinary World	CC	2	HW0001
CC0002	Navigating the Digital World	CC	2	
ET5211	Entrepreneurial Mindset and Technology Innovation	BDE	3	
			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	
CC0003	Ethics & Civics in a Multi-Cultural World	CC	2	
CC0005	Healthy Living & Wellbeing	CC	3	
ET5213	Managing New Ventures	BDE	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
CC0006	Sustainability: Society, Economy & Environment	CC	3	
ML0004	Career and Entrepreneurial Development for the Future World	CC	2	
ET5212	Entrepreneurial Ecosystems	BDE	3	
			21	

YEAR 2 SEMESTER 2				
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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	
CC0007	Science & Technology for Humanity	CC	3	
ET5214	Financing Entrepreneurial Ventures	BDE	3	ET9213
			16	

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 Resources Engineering	C	3	
CV0003	Introduction to Data Science and Artificial Intelligence	FC	3	CV1014
HW0288	Engineering Communication	FC	2	CC0001
	SMiE Elective Course 1	BDE	3	
			20	

YEAR 3 SEMESTER 2

Course Code	Course Title	Type	AU	Pre-Requisite
EN3914	Professional Internship	FC	5	Year 3 standing &
		BDE	5	completed ET9211 & ET9213
			10	

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
	SMiE Elective Course 2	BDE	3	
	SMiE Elective Course 3	BDE	3	
			16	

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
EN4XXX	Major Prescribed Elective	MPE	3	Refer to Syllabus
	SMiE Elective Course 4	BDE	4	
			16	

Total AU for Graduation : **140**