AY2026-27 CURRICULUM FOR BACHELOR OF ENGINEERING (CIVIL)
WITH SECOND MAJOR IN ENTREPRENEURSHIP - PROFESSIONAL INTERNSHIP
(FIRST YEAR ADMISSION)

Last Updated : 31-Jul-26

SUMMARY OF ACADEMIC UNIT REQUIREMENT							
Year of Study	Major Requirements		Interdisciplinary Collaborative Core			Broadening & Deepening Electives	Total AU
	Core	Major PE	Common Core	Professional Series	Care, Serve, Learn		
1	29	0	7	0	0	6	**42**
2	23	0	7	3	3	6	**42**
3	11	0	0	13	0	3	**27**
4	19	3	0	0	0	10	**32**
Total	**82**	**3**	**14**	**16**	**3**	**25**	**143**

** Students without 'A' Level/Senior High School Physics will take 'PH1012 Physics A' (4AU)*

^ The 20-week OEP or Professional Internship is 10AU, of which 5AU will be drawn from ICC Professional Series. In students' degree audit, all 10AU will be filed under ICC-PS.

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	
CV1711	Engineering Drawing and 3D Building Information Modelling	C	1	
CC0015	Health & Wellbeing	CC	2	
ET5001	Foundations of Innovation and Entrepreneurship	BDE-ET	3	
			20	

YEAR 1 SEMESTER 2				
Course Code	**Course Title**	**Type**	**AU**	**Pre-Requisite**
MH1811	Mathematics 2	C	3	MH1810
CV1013	Civil Engineering Materials	C	3	
CV1014	Introduction To Computational Thinking	C	3	
CV2020	Water Resources Engineering	C	3	CV1012
EG1001	Engineers In Society	C	2	
CC0001	Inquiry and Communication in an Interdisciplinary World	CC	2	
CC0007	Science and Technology for Humanity	CC	3	
ET5132	New Venture Financing	BDE-ET	3	
			22	

YEAR 2 SEMESTER 1				
Course Code	**Course Title**	**Type**	**AU**	**Pre-Requisite**
CV2011	Structural Analysis I	C	3	CV1011
CV2013	Engineering Geology & Soil Mechanics	C	3	
CV2711	Civil Engineering Laboratory A	C	1	
MH2814	Probability & Statistics	C	3	MH1810
CV0003	Introduction to Data Science and Artificial Intelligence	PS	3	CV1014
CC0006	Sustainability: Society, Economy & Environment	CC	3	
ML0004	Career Design and Workplace Readiness in a Dynamic World	CC	2	
ET5003	Leading and Managing Growing Entreprises	BDE-ET	3	
			21	

YEAR 2 SEMESTER 2				
Course Code	**Course Title**	**Type**	**AU**	**Pre-Requisite**
CV2012	Structural Analysis II	C	3	CV2011
CV2014	Geotechnical Engineering	C	3	CV2013
CV2019	Matrix Algebra & Computational Methods	C	3	
CV2712	Civil Engineering Laboratory B	C	1	
CV3012	Steel Design	C	3	CV2011
CC0003	Ethics & Civics in a Multi-Cultural World	CC	2	
	Service Learning	CSL	3	
ET5135	Business Venture Implementation	BDE-ET	3	
			21	

YEAR 3 SEMESTER 1				
Course Code	**Course Title**	**Type**	**AU**	**Pre-Requisite**
CV3011	Reinforced Concrete Design	C	3	CV2011
CV3013	Foundation Engineering	C	3	CV2013 & CV2014
CV3014	Transportation Engineering	C	3	
CV3017	Urban Water Circularity	C	2	CV1012
HW0288	Engineering Communication	PS	2	CC0001 & Year 3 Standing
MLxxxx	Profession Preparation	PS	1	
	SMiE Elective Course 1	BDE-ET	3	
			17	

YEAR 3 SEMESTER 2				
Course Code	**Course Title**	**Type**	**AU**	**Pre-Requisite**
CV3920 ^	Professional Internship	PS	10	Year 3 standing &
				completed ET5213
			10	

YEAR 4 SEMESTER 1				
Course Code	**Course Title**	**Type**	**AU**	**Pre-Requisite**
CV4012	Project Planning & Management	C	2	Year 4 Standing
CV4711	Seminars on Built Environment	C	1	
CV4911	Final Year Project	C	4	Year 4 Standing
CV4XXX	Major Prescribed Elective	MPE	3	Refer to Syllabus
	SMiE Elective Course 2	BDE-ET	3	
	SMiE Elective Course 3	BDE-ET	3	
			16	

YEAR 4 SEMESTER 2				
Course Code	**Course Title**	**Type**	**AU**	**Pre-Requisite**
CV3016	Construction Technology & Processes	C	3	
CV4911	Final Year Project	C	4	Year 4 Standing
CV4915	Integrated Design Project	C	5	Year 4 Standing
	SMiE Elective Course 4	BDE-ET	4	
			16	

Total AU for Graduation : **143**