AY2025-26 CURRICULUM FOR BACHELOR OF ENGINEERING (CIVIL) (FIRST YEAR ADMISSION)

Last Updated: 2-Jul-25

	SUMMARY OF ACADEMIC UNIT REQUIREMENT									
	Major Red	uirements	Interdis	ciplinary Collaborative	Core	Broadening				
Year of Study	Core	Major PE	Common Core	Professional Series	Care, Serve, Learn	& Deepening Electives	Total AU			
1	29	0	6	0	0	0	35			
2	23	0	8	3	3	0	37			
3	11	0	0	13	0	5	29			
4	17	3	0	0	0	15	35			
Total	80	3	14	16	3	20	136			

^{*} Students without 'A' Level Physics will take 'PH1012 Physics A' (4AU).

YEAR 1 SEMESTER 1					
Course Code	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		
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					
Course Code	Course Title	Туре	AU	Pre-Requisite	
MH1811	Mathematics 2	С	3	MH1810	
CV1013	Civil Engineering Materials	С	3		
CV1014	Introduction To Computational Thinking	С	3		
CV2020	Water Resources Engineering	С	3	CV1012	
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					
Course Code	Course Title	Type	AU	Pre-Requisite	
CV2011	Structural Analysis I	С	3	CV1011	
CV2013	Engineering Geology & Soil Mechanics	С	3		
CV2711	Civil 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						
Course Code	Course Title	Туре	AU	Pre-Requisite		
CV2012	Structural Analysis II	С	3	CV2011		

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CV2014	Geotechnical Engineering	С	3	CV2013
CV2019	Matrix Algebra & Computational Methods	С	3	
CV2712	Civil Engineering Laboratory B	С	1	
CV3012	Steel Design	С	3	CV2011
CC0007	Science and Technology for Humanity	CC	3	
	Service Learning	CSL	3	
			19	

	YEAR 3 SEMESTER 1					
Course Code	Course Title	Туре	AU	Pre-Requisite		
CV3011	Reinforced Concrete Design	С	3	CV2011		
CV3013	Foundation Engineering	С	3	CV2013 & CV2014		
CV3014	Transportation Engineering	С	3			
CV3017	Urban Water Circularity	С	2	CV1012		
HW0288	Engineering Communication	PS	2	CC0001		
MLxxxx	Profession Preparation	PS	1			
	Broadening & Deepening Electives 1	BDE	2			
	Broadening & Deepening Electives 2	BDE	3			
			19			

	YEAR 3 SEMESTER 2						
Course Code	Course Title	Туре	AU	Pre-Requisite			
CV3920	Professional Internship	PS	10	Year 3 standing &			
				completed at least 4			
				semesters of study			
			10				

YEAR 4 SEMESTER 1					
Course Code	Course Title	Туре	AU	Pre-Requisite	
CV4012	Project Planning & Management	С	2	Year 4 Standing	
CV4711	Seminars on Built Environment	С	1		
CV4911	Final Year Project	С	4	Year 4 Standing	
CV4XXX	Major Prescribed Elective	MPE	3	Refer to Syllabus	
	Broadening & Deepening Electives 3	BDE	3		
	Broadening & Deepening Electives 4	BDE	3		
	Broadening & Deepening Electives 5	BDE	3		
			19		

YEAR 4 SEMESTER 2						
Course Code	Course Title	Туре	AU	Pre-Requisite		
CV3016	Construction Technology & Processes	С	3			
CV4911	Final Year Project	С	4	Year 4 Standing		
CV4912	Integrated Design Project	С	3	Year 4 Standing		
	Broadening & Deepening Electives 6	BDE	3			
	Broadening & Deepening Electives 7	BDE	3			
			16			

Total AU for Graduation : 136

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