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

Last Updated: 22-Feb-23

SUMMARY OF ACADEMIC UNIT REQUIREMENT							
Year of Study	Core	MPE	СС	FC	BDE	Total AU	
1	25	0	9	0	6	40	
2	24	0	8	3	6	41	
3	11	0	0	12	6	29	
4	20	3	0	0	12	35	
Total	80	3	17	15	30	145	

^{*} 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		
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	Туре	AU	Pre-Requisite	
MH1811	Mathematics 2	С	3	MH1810	
CV1013	Civil Engineering Materials	С	3		
CV1014	Introduction To Computational Thinking	С	3		
EG1001	Engineers In Society	С	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		
			19		

YEAR 2 SEMESTER 1				
Course Code	Course Title	Туре	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	FC	3	CV1014
	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

ENG 1

Course Code	Course Title	Туре	AU	Pre-Requisite
CV1711	Engineering Drawing and 3D Building Information Modelling	С	1	
CV2012	Structural Analysis II	С	3	CV2011
CV2014	Geotechnical Engineering	С	3	CV2013
CV2019	Matrix Algebra & Computational Methods	С	3	
CV2020	Water Resources Engineering	С	3	CV1012
CV2712	Civil Engineering Laboratory B	С	1	
SU2001	Urban Planning & Design	BDE	3	
CC0007	Science & Technology for Humanity	CC	3	
			20	

	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	FC	2	CC0001	
SU3001	Integrated Urban Management	BDE	3		
	Urban Economics & Public Policy 2	BDE	3	HE9091	
			19		

YEAR 3 SEMESTER 2				
Course Code	Course Title	Туре	AU	Pre-Requisite
CV3914	Professional Internship	FC	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 & Site Visits	С	1		
CV4911	Final Year Project	С	4	Year 4 Standing	
CV4XXX	Major Prescribed Elective	MPE	3	Refer to Syllabus	
	Urban Economics & Public Policy 3	BDE	3	HE9091	
	Water and Environmental Management 1	BDE	3		
			16		

	YEAR 4 SEMESTER 2				
Course Code	Course Title	Туре	AU	Pre-Requisite	
CV3012	Steel Design	С	3	CV2011	
CV3016	Construction Technology & Processes	С	3		
CV4911	Final Year Project	С	4	Year 4 Standing	
CV4912	Integrated Design Project	С	3	Year 4 Standing	
SU4001	Leaders in Urban Systems and Policy	BDE	3		
	Society and Culture 2	BDE	3		
			19		

Total AU for Graduation : 145

ENG 2