AY2024-25 CURRICULUM FOR BACHELOR OF ENGINEERING (CIVIL) WITH SECOND MAJOR IN SOCIETY & URBAN SYSTEMS - PROFESSIONAL ATTACHMENT (FIRST YEAR ADMISSION)

Last Updated: 18-Jul-24

	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	17	0	0	7	12	36		
4	14	3	0	0	11	28		
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	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	Type	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						
Course Code	Course Title	Type	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		

ENG 1

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			
			16			

	YEAR 3 SEMESTER 2			
Course Code	Course Title	Туре	AU	Pre-Requisite
CV3012	Steel Design	С	3	CV2011
CV3016	Construction Technology & Processes	С	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	Туре	AU	Pre-Requisite
CV3910	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	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		
	Urban Economics & Public Policy 3	BDE	3	HE9091		
	Broadening & Deepening Electives 2	BDE	2			
			15			

YEAR 4 SEMESTER 2					
Course Code	Course Title	Type	AU	Pre-Requisite	
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		
	Water and Environmental Management 1	BDE	3		
			13		
	Tabal All Car Coad on		4.45		

Total AU for Graduation : 145

ENG 2