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

					Last Updated :	4-Jul-24			
SUMMARY OF ACADEMIC UNIT REQUIREMENT									
Year of Study	Core	MPE	CC	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	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	
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	C	3	MH1810
CV1013	Civil Engineering Materials	C	3	
CV1014	Introduction To Computational Thinking	C	3	
EG1001	Engineers In Society	C	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	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	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	

Course Code	Course Title	Туре	AU	Pre-Requisite
CV1711	Engineering Drawing and 3D Building Information Modelling	C	1	
CV2012	Structural Analysis II	C	3	CV2011
CV2014	Geotechnical Engineering	C	3	CV2013
CV2019	Matrix Algebra & Computational Methods	C	3	
CV2020	Water Resources Engineering	C	3	CV1012
CV2712	Civil Engineering Laboratory B	C	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	
CV3920	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	C	3	CV2011
CV3016	Construction Technology & Processes	C	3	
CV4911	Final Year Project	C	4	Year 4 Standing
CV4912	Integrated Design Project	C	3	Year 4 Standing
SU4001	Leaders in Urban Systems and Policy	BDE	3	
	Society and Culture 2	BDE	3	
			19	
	Tatal All far Cradus		1.45	

Total AU for Graduation : 145