CURRICULUM FOR BACHELOR OF ENGINEERING (CIVIL) WITH CN YANG SCHOLARS PROGRAMME SECOND MAJOR IN SUSTAINABILITY (CVSN) (FIRST YEAR ADMISSION) AY2025 Intake Onwards

	SUMMARY OF ACADEMIC UNIT REQUIREMENT								
	Major Requirements		Interdisciplinary Collaborative Core			Duna da uiu a			
Year of Study	School Core	CNYSP-Core	МРЕ	Common Core	Professional Series	Care, Serve, Learn	Broadening & Deepening Electives	Total AU	
1	16	27	0	2	0	0	0	45	
2	17	10	0	5	3	3	3	41	
3	22	0	0	3	6	0	3	34	
4	12	0	3	0	0	0	19	34	
Total	67	37	3	10	9	3	25	154	

	YEAR 1 SEMESTER 1					
Course Code	Course Title	Туре	AU	Pre-Requisite/Remarks		
CY1001	Cell	CNY-Core	3			
CY1101	Molecule	CNY-Core	4			
CY1308	Physics	CNY-Core	3	CNYSP Courses		
CY1500	Introduction to Research	CNY-Core	2			
CY1601	Mathematics I	CNY-Core	4			
CV1011	Mechanics of Materials	С	4			
CV1711	Engineering Drawing and 3D Building Information Modelling	С	1			
			21			

YEAR 1 SEMESTER 2				
Course Code	Course Title	Туре	AU	Pre-Requisite/Remarks
CY1007^	Climate Change	CNY-Core	3	Double-counted as Planet
C11007.	Climate Change	CIVIT-COTE	5	Core
CY1602	Mathematics II	CNY-Core	4	CNYSP Courses
CV1012	Fluid Mechanics	С	3	
CV1013	Civil Engineering Materials	С	3	
CV1014	Introduction To Computational Thinking	С	3	
EG1001^	Engineers In Society	С	ว	Double-counted as
EG1001,	Engineers In Society	C	2	Practice Core
CC0015	Health & Wellbeing	CC	2	
			20	

	YEAR 1 SPECIAL SEMESTER					
Course Code	Course Title	Туре	AU	Pre-Requisite/Remarks		
CY2003	Research Attachment 3	CNY-Core	4	CNYSP Course		
	Overseas Learning Trip					
			4			

	YEAR 2 SEMESTER 1				
Course Code	Course Title	Туре	AU	Pre-Requisite/Remarks	
CY0001	Writing Across the Disciplines	CNY-Core	3	CNYSP Course	
CV2011	Structural Analysis I	С	3	CV1011	
CV2013	Engineering Geology & Soil Mechanics	С	3		
CV2711	Civil Engineering Laboratory A	С	1		
CV0003	Introduction to Data Science and Artificial Intelligence	PS	3	CV1014	
	Tech-For-Good (T4G)	CSL	3		
	Second Major Compulsory Course 3	BDE	3	Please see attached list of core courses to choose from	
			19		

YEAR 2 SEMESTER 2				
Course Code	Course Title	Туре	AU	Pre-Requisite/Remarks
CY0002	Ethics	CNY-Core	3	CNYSP Course

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	Research Attachment 1			CNYSP Course
6,42,004		CNY-Core	4	2-semester long, course
CY2001	Research Attachment 1	CNT-COTE 4	4	registered only in Sem 2
				(similar to URECA)
CV2012	Structural Analysis II	С	3	CV2011
CV2014	Geotechnical Engineering	С	3	CV2013
CV2020	Water Resources Engineering	С	3	CV1012
CV2712	Civil Engineering Laboratory B	С	1	
SP0061	Science and Technology for Humanity	CC	3	
CC0004	Career Design & Workplace Readiness in the V.U.C.A World	CC	2	
			22	

	YEAR 3 SEMESTER 1				
Course Code	Course Title	Туре	AU	Pre-Requisite/Remarks	
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	
MH2814	Probability & Statistics	С	3	MH1810	
CC0006	Sustainability: Society, Economy & Environment	CC	3		
	Profession Preparation	PS	1		
	Second Major Compulsory Course 4	BDE	3	Please see attached list of core courses to choose from	
			21		

	YEAR 3 SEMESTER 2					
Course Code	Course Title	Туре	AU	Pre-Requisite/Remarks		
CV4211	CNYSP Overseas Final Year Project	С	8	Year 4 Standing CNYSP Course		
			8			

	YEAR 3 SPECIAL SEMESTER					
Course Code	Course Title	Туре	AU	Pre-Requisite/Remarks		
				Year 3 standing &		
CV3910	Professional Attachment	PS	5	completed at least 4		
				semesters of study		
			5			

	YEAR 4 SEMESTER 1				
Course Code	Course Title	Туре	AU	Pre-Requisite/Remarks	
CV4012	Project Planning & Management	С	2	Year 4 Standing	
CV4711	Seminars on Built Environment	С	1		
CV4XXX	Major Prescribed Elective	MPE	3	Refer to Syllabus	
	Second Major Compulsory Course 5	BDE	3	Please see attached list of core courses to choose from	
	Second Major Interdisciplinary Project	BDE	3		
	SN Elective 1	BDE	3	Please see attached list of electives to choose from	
			15		

	YEAR 4 SEMESTER 2					
Course Code	Course Title	Туре	AU	Pre-Requisite/Remarks		
CV3012	Steel Design	С	3	CV2011		
CV3016	Construction Technology & Processes	С	3			
CV4912	Integrated Design Project	С	3	Year 4 Standing		
	SN Elective 2	BDE	3	Please see attached list of		
	SN Elective 3	BDE	3			
	SN Elective 4	BDE	4	electives to choose from		
			19			
Total AU for Graduation:		154				

Compulsory Courses and Electives for Second Major in Sustainability

https://www.ntu.edu.sg/ase/admissions/undergraduate-programmes/second-major-in-sustainability#Content C002 Col00

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