CURRICULUM FOR BACHELOR OF ENGINEERING (CIVIL) WITH CN YANG SCHOLARS PROGRAMME (FIRST YEAR ADMISSION) AY2025 Intake Onwards

SUMMARY OF ACADEMIC UNIT REQUIREMENT								
	Major Requirements			Interdisciplinary Collaborative Core			Broadening	
Year of Study	Year of Study Charles Charles Pr		Professional	Care, Serve	& Deepening	Total AU		
	School Core	CNYSP-Core	MPE	Common Core	Series	& Learn	Electives	
1	16	27	0	2	0	0	0	45
2	20	10	0	5	3	3	0	41
3	19	0	0	3	6	0	2	30
4	12	0	3	0	0	0	5	20
Total	67	37	3	10	9	3	7	136

	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	CNYSP Courses	
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	2		
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		
MH2814	Probability & Statistics	С	3	MH1810	
CV0003	Introduction to Data Science and Artificial Intelligence	PS	3	CV1014	
	Tech-For-Good (T4G)	CSL	3		
			19		

	YEAR 2 SEMESTER 2					
Course Code	Course Title	Туре	AU	Pre-Requisite/Remarks		
CY0002	Ethics	CNY-Core	3	CNYSP Course		
				CNYSP Course		
6)/2004	Research Attachment 1	CNY-Core	4	2-semester long, course		
CY2001				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			

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ML0004	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	
CC0006	Sustainability: Society, Economy & Environment	CC	3		
MLXXXX	Profession Preparation	PS	1		
	Broadening & Deepening Elective 1	BDE	2		
			17		

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		
CV3910	Professional Attachment	PS	5	Year 3 standing & 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	
	Broadening & Deepening Elective 2	BDE	2		
			8		

	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		
	Broadening & Deepening Elective 3	BDE	3			
			12			
Total AU for Graduation:		136				

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