AY2024-25 CURRICULUM FOR BACHELOR OF ENGINEERING (ENVIRONMENTAL ENGINEERING) WITH CN YANG SCHOLARS PROGRAMME SECOND MAJOR IN SUSTAINABILITY (ENSN) (FIRST YEAR ADMISSION)

						Last Updated :	31-Jan-24		
	SUMMARY OF ACADEMIC UNIT REQUIREMENT								
Year of Study	School Core	CNYSP-Core	MPE	CC	FC	BDE	Total AU		
1	13	27	0	5	0	0	45		
2	17	10	0	5	3	6	41		
3	26	0	0	3	5	0	34		
4	11	0	3	0	0	19	33		
Total	67	37	3	13	8	25	153		

	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			
CC0002	Navigating the Digital World	CC	2			
			22			

	YEAR 1 SEMESTER 2					
Course Code	Course Title	Туре	AU	Pre-Requisite/Remarks		
CY1007^	Climate Change	CNY-Core	3	Double-counted as Planet Core		
CY1602	Mathematics II	CNY-Core	4	CNYSP Course		
CV1014	Introduction To Computational Thinking	С	3			
CV1711	Engineering Drawing and 3D Building Information Modelling	С	1			
EN2002	Environmental Biology and Microbiology	С	3			
EG1001^	Engineers In Society	С	2	Double-counted as Practice Core		
CC0005	Healthy Living & Wellbeing	CC	3			
			19			

	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	
CV1012	Fluid Mechanics	С	3		
CV2011	Structural Analysis I	С	3	CV1011	
EN2004	Geo-Environment and Soil Mechanics	С	3		
EN2711	Environmental Engineering Laboratory A	С	1		
CV0003	Introduction to Data Science and Artificial Intelligence	FC	3	CV1014	
	Second Major Compulsory Course 3	BDE	3		
			19		

	YEAR 2 SEMESTER 2					
Course Code	Course Title	Туре	AU	Pre-Requisite/Remarks		
CY0002	Ethics	CNY-Core	3	CNYSP Course		
				CNYSP Course		
CY2001	Research Attachment 1	CNY-Core	4	2-semester long, course registered		
				only in Sem 2 (similar to URECA)		
CV2020	Water Resources Engineering	С	3	CV1012		
EN2003	Water Supply Engineering	С	3	CV1012		
EN2712	Environmental Engineering Laboratory B	С	1			
SP0061	Science & Technology for Humanity	CC	3			
ML0004	Career and Entrepreneurial Development for the Future World	CC	2			

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Second Major Compulsory Course 4	BDE	3	
		22	

	YEAR 3 SEMESTER 1					
Course Code	Course Title	Туре	AU	Pre-Requisite/Remarks		
EN3001	Solid & Hazardous Waste Management	С	3	Voor 2 Standing		
EN3002	Wastewater Engineering	С	3	Year 3 Standing		
EN3003	Environmental Transport Processes	С	3			
EN3004	Air Pollution Control Engineering	С	3	Year 3 Standing		
EN3006	Energy Resource Engineering	С	3			
MH2814	Probability & Statistics	С	3	MH1810		
CC0006	Sustainability: Society, Economy & Environment	CC	3			
			21			

YEAR 3 SEMESTER 2				
Course Code	Course Title	Туре	AU	Pre-Requisite/Remarks
EN4211	CNYSP Overseas Final Year Project	С	8	Year 4 Standing
			8	

YEAR 3 SPECIAL SEMESTER				
Course Code	Course Title	Туре	AU	Pre-Requisite/Remarks
EN3910	Professional Attachment	FC	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		
EN4001	Environmental Impact Analysis & Monitoring	С	3			
EN4711	Seminars & Site Visits	С	1			
EN4XXX	Major Prescribed Elective	MPE	3	Refer to Syllabus		
	Second Major Compulsory Course 5	BDE	3			
	SN Elective 1	BDE	3	Please see attached list of electives to		
	SN Elective 2	BDE	3	choose from		
			18			

	YEAR 4 SEMESTER 2					
Course Code	Course Title	Туре	AU	Pre-Requisite/Remarks		
EN4003	Environmental Systems Analysis	С	2			
EN4912	Integrated Design Project	С	3	Year 4 Standing		
	SN Elective 3	BDE	3	Please see attached list of electives to		
	SN Elective 4	BDE	4	choose from		
	Second Major Interdisciplinary Project	BDE	3			
			15			
	Total AU f	for Graduation:	153			

^ These courses are double-counted towards both ENE as well as the Second Major in Sustainability.

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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