AY2025-26 CURRICULUM FOR BACHELOR OF ENGINEERING (ENVIRONMENTAL ENGINEERING)
WITH CN YANG SCHOLARS PROGRAMME
SECOND MAJOR IN DATA ANALYTICS (ENDA)
(FIRST YEAR ADMISSION)

Last Updated :   2-Jul-25

SUMMARY OF ACADEMIC UNIT REQUIREMENT							
Year of Study	Major Requirements			Interdisciplinary Collaborative Core			Broadening & Deepening	Total AU
	School Core	CNYSP-Core	MPE	Common Core	Professional Series	Care, Serve, Learn		
1	16	23	0	2	0	0	3	**44**
2	17	10	0	5	3	3	3	**41**
3	20	0	0	3	6	0	3	**32**
4	14	0	3	0	0	0	15	**32**
Total	**67**	**33**	**3**	**10**	**9**	**3**	**24**	**149**

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

YEAR 1 SEMESTER 2				
Course Code	Course Title	Type	AU	Pre-Requisite/Remarks
CY1007	Climate Change	CNY-Core	3	CNYSP Course
CV1012	Fluid Mechanics	C	3	
CV1014^	Introduction To Computational Thinking	C	3	
CV2019	Matrix Algebra & Computational Methods	BDE-DA	3	
EN2002	Microbiological Principles of Environmental Engineering	C	3	
EG1001	Engineers In Society	C	2	
CC0015	Health & Wellbeing	CC	2	
			19	

YEAR 1 SPECIAL SEMESTER				
Course Code	Course Title	Type	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	Type	AU	Pre-Requisite/Remarks
CY0001	Writing Across the Disciplines	CNY-Core	3	CNYSP Course
EN2004	Geo-Environment and Soil Mechanics	C	3	
EN2711	Environmental Engineering Laboratory A	C	1	
MH2814^	Probability & Statistics	C	3	MH1810
MH1403	Algorithms and Computing	BDE-DA	3	CV1014
CV0003	Introduction to Data Science and Artificial Intelligence	PS	3	CV1014
ML0004	Career Design & Workplace Readiness in the V.U.C.A World	CC	2	
	Tech-For-Good (T4G)	CSL	3	
			21	

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

CY2001	Research Attachment 1	CNY-Core	4	CNYSP Course 2-semester long, course registered only in Sem 2 (similar to URECA)
CV2020	Water Resources Engineering	C	3	CV1012
EN2003	Water Supply Engineering	C	3	CV1012
EN2005	Environmental Health and Safety Management	C	3	
EN2712	Environmental Engineering Laboratory B	C	1	
SP0061	Science and Technology for Humanity	CC	3	
			20	

YEAR 3 SEMESTER 1				
Course Code	**Course Title**	**Type**	**AU**	**Pre-Requisite/Remarks**
EN3001	Solid & Hazardous Waste Management	C	3	Year 3 Standing
EN3002	Wastewater Engineering	C	3	Year 3 Standing
EN3004	Air Pollution Control Engineering	C	3	Year 3 Standing
EN3006	Energy Resource Engineering	C	3	
CC0006	Sustainability: Society, Economy & Environment	CC	3	
SC4024	Data Visualization	BDE-DA	3	CV1014, MH2814
MLxxxx	Profession Preparation	PS	1	
			19	

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

YEAR 3 SPECIAL SEMESTER				
Course Code	**Course Title**	**Type**	**AU**	**Pre-Requisite/Remarks**
EN3910	Professional Attachment	PS	5	Year 3 standing & completed at least 4 semesters of study
			5	

YEAR 4 SEMESTER 1				
Course Code	**Course Title**	**Type**	**AU**	**Pre-Requisite/Remarks**
CV4012	Project Planning & Management	C	2	Year 4 Standing
EN4001	Environmental Impact Analysis & Monitoring	C	3	
EN4711	Seminars on Built Environment	C	1	
EN4XXX	Major Prescribed Elective	MPE	3	Refer to Syllabus
EE4483	Artificial Intelligence & Data Mining	BDE-DA	3	**CV2019, CV0003**
SC2207	Introduction to Database	BDE-DA	3	**MH1403**
XXXXXX	DA Elective 1	BDE-DA	3	
			18	

YEAR 4 SEMESTER 2				
Course Code	**Course Title**	**Type**	**AU**	**Pre-Requisite/Remarks**
EN3003	Environmental Transport Processes	C	3	
EN4003	Environmental Systems Analysis	C	2	
EN4912	Integrated Design Project	C	3	Year 4 Standing
XXXXXX	DA Elective 2	BDE-DA	3	
XXXXXX	DA Elective 3	BDE-DA	3	
			14	
		Total AU for Graduation:	**149**	

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