## AY2024-25 CURRICULUM FOR BACHELOR OF ENGINEERING (INFORMATION ENGINEERING & MEDIA) WITH CN YANG SCHOLARS PROGRAMME SECOND MAJOR IN SUSTAINABILITY (IESN) (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	11	27	0	5	0	0	43
2	14	10	0	8	3	6	41
3	15	0	18	0	5	9	47
4	11	0	6	0	0	10	27
Total	51	37	24	13	8	25	158

YEAR 1 SEMESTER 1				
Course Code	Course Title	Туре	AU	Pre-Requisite/Remarks
CY1001	Cell	CNY-Co	e 3	
CY1101	Molecule	CNY-Co	e 4	
CY1308	Physics	CNY-Co	e 3	CNYSP Courses
CY1500	Introduction to Research	CNY-Co	e 2	
CY1601	Mathematics I	CNY-Co	e 4	
EG1001^	Engineers in Society	С	2	Double-counted as Practice Core
CC0002	Navigating the Digital World	CC	2	
			20	

	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	
IE1005	From Computational Thinking to Programming	С	3		
IE2108	Data Structure and Algorithm	С	3		
IM1002	Analog Electronics	С	3		
CC0005	Healthy Living & Mental Wellbeing in an Aging Society	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	Type	AU	Pre-Requisite/Remarks	
CY0001	Writing Across the Disciplines	CNY-Core	3	CNYSP Course	
DA1000	Thinking and Communicating Visually I	С	3		
IE0005	Introduction to Data Science and Artificial Intelligence	FC	3	IE1005	
IE2106	Engineering Mathematics I	С	3	CY1602	
CC0006	Sustainability: Society, Economy & Environment	CC	3		
ML0004	Career and Entrepreneurial Development for the Future World	CC	2		
	Second Major Compulsory Course 3	BDE	3		
			20		

YEAR 2 SEMESTER 2					
Course Code	Course Title	Туре	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)	
IM1003	Object-Oriented Programming	С	3		
IE2104	Digital Electronics	С	3		
IM2073	Introduction to Design & Project	С	2		
SP0061	Science & Technology for Humanity	CC	3		
	Second Major Compulsory Course 4	BDE	3 <b>21</b>		

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	YEAR 3 SEMESTER 1				
Course Code	Course Title	Type	AU	Pre-Requisite/Remarks	
IE3017	Computer Communications	С	3		
IE2110	Signals and Systems	С	3		
IM3180	Design & Innovation Project	С	3		
IM300X	Prescribed Elective 1	MPE	3		
IM4XXX	Technical Elective 1	MPE	3		
	Second Major Compulsory Course 5	BDE	3		
	SN Elective 1	BDE	3	Please see attached list of electives to choose from	
			21		

	YEAR 3 SEMESTER 2				
Course Code	Course Title	Type	AU	Pre-Requisite/Remarks	
DA2002	Thinking and Communicating Visually II	С	3		
IE4001	Software Engineering	С	3		
IM300X	Prescribed Elective 2	MPE	3		
IM300X	Prescribed Elective 3	MPE	3		
IM4XXX	Design Elective 1	MPE	3		
IM4XXX	Technical Elective 2	MPE	3		
	SN Elective 2	BDE	3	Please see attached list of electives to choose from	
			21		

	YEAR 3 SPECIAL SEMESTER				
Course Code	Course Title	Туре	AU	Pre-Requisite/Remarks	
IM3910	Professional Attachment	FC	5		
			5		

YEAR 4 SEMESTER 1				
Course Code	Course Title	Туре	AU	Pre-Requisite/Remarks
IM4081	CNYSP Overseas Final Year Project	С	8	CNYSP Course
			8	

	YEAR 4 SEMESTER 2				
Course Code	Course Title	Туре	AU	Pre-Requisite/Remarks	
DA3000	Thinking and Communicating Visually III	С	3	DA1000	
IM4XXX	Design Elective 2/ Technical Elective 3	MPE	3		
IM4XXX	Technical Elective 3/4	MPE	3		
	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		
			19		
•	Total AU for	Graduation:	158		

## ^ These courses are double-counted towards both IEM 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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