

**AY2024-25 CURRICULUM FOR BACHELOR OF ENGINEERING (INFORMATION ENGINEERING & MEDIA)
WITH CN YANG SCHOLARS PROGRAMME
(FIRST YEAR ADMISSION)**

Last Updated : 23-May-24

SUMMARY OF ACADEMIC UNIT REQUIREMENT							
Year of Study	School Core	CNYSB-Core	MPE	CC	FC	BDE	Total AU
1	11	27	0	5	0	0	43
2	17	10	0	8	0	0	35
3	15	0	12	0	8	6	41
4	8	0	12	0	0	0	20
Total	51	37	24	13	8	6	139

YEAR 1 SEMESTER 1				
Course Code	Course Title	Type	AU	Pre-Requisite/Remarks
CY1001	Cell	CNY-Core	3	CNYSB Courses
CY1101	Molecule	CNY-Core	4	
CY1308	Physics	CNY-Core	3	
CY1500	Introduction to Research	CNY-Core	2	
CY1601	Mathematics I	CNY-Core	4	
EG1001	Engineers in Society	C	2	
CC0002	Navigating the Digital World	CC	2	
			20	

YEAR 1 SEMESTER 2				
Course Code	Course Title	Type	AU	Pre-Requisite/Remarks
CY1007	Climate Change	CNY-Core	3	CNYSB Courses
CY1602	Mathematics II	CNY-Core	4	
IE1005	From Computational Thinking to Programming	C	3	
IE2108	Data Structure and Algorithm in Python	C	3	
IM1002	Analog Electronics	C	3	
CC0005	Healthy Living & Mental Wellbeing in an Aging Society	CC	3	
			19	

YEAR 1 SPECIAL SEMESTER				
Course Code	Course Title	Type	AU	Pre-Requisite/Remarks
CY2003	Research Attachment 3	CNY-Core	4	CNYSB 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	CNYSB Course
DA1000	Thinking and Communicating Visually I	C	3	
CC0006	Sustainability: Society, Economy & Environment	CC	3	
ML0004	Career and Entrepreneurial Development for the Future World	CC	2	
			11	

YEAR 2 SEMESTER 2				
Course Code	Course Title	Type	AU	Pre-Requisite/Remarks
CY0002	Ethics	CNY-Core	3	CNYSB Course
CY2001	Research Attachment 1	CNY-Core	4	CNYSB Course 2-semester long, course registered only in Sem 2 (similar to URECA)
IM1003	Object-Oriented Programming	C	3	
IE2104	Digital Electronics	C	3	
IE2106	Engineering Mathematics I	C	3	CY1602
IM2073	Introduction to Design & Project	C	2	
DA2002	Thinking and Communicating Visually II	C	3	DA1000
SP0061	Science & Technology for Humanity	CC	3	

			24	
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YEAR 3 SEMESTER 1

Course Code	Course Title	Type	AU	Pre-Requisite/Remarks
IE3017	Computer Communications	C	3	IE2106
IE2110	Signals and Systems	C	3	CY1601+CY1602
IM3180	Design & Innovation Project	C	3	IM2073^
IExxxx	Prescribed Elective 1	MPE	3	
IE0005	Introduction to Data Science and Artificial Intelligence	FC	3	IE1005
	Broadening and Deepening Elective 1	BDE	3	
			18	

YEAR 3 SEMESTER 2

Course Code	Course Title	Type	AU	Pre-Requisite/Remarks
IE4001	Software Engineering	C	3	
IExxxx	Prescribed Elective 2	MPE	3	
IExxxx	Prescribed Elective 3	MPE	3	
IE4xxx	Design Elective 1	MPE	3	
DA3000	Thinking and Communicating Visually III	C	3	DA1000
CY1307	Quantum	BDE	3	Students can choose to opt out and replace with any other BDE course (3 AU)
			18	

YEAR 3 SPECIAL SEMESTER

Course Code	Course Title	Type	AU	Pre-Requisite/Remarks
IM3276	Professional Attachment	FC	5	
			5	

YEAR 4 SEMESTER 1

Course Code	Course Title	Type	AU	Pre-Requisite/Remarks
IM4081	CNYSP Overseas Final Year Project	C	8	CNYSP Course
			8	

YEAR 4 SEMESTER 2

Course Code	Course Title	Type	AU	Pre-Requisite/Remarks
IE4xxx	Technical Elective 1	MPE	3	
IE4xxx	Technical Elective 2	MPE	3	
IE4xxx	Technical Elective 3	MPE	3	
IE4xxx	Design Elective 2/Technical Elective 4	MPE	3	
			12	

Total AU for Graduation: **139**