

CURRICULUM FOR BACHELOR OF ENGINEERING (INFORMATION ENGINEERING & MEDIA)
WITH CN YANG SCHOLARS PROGRAMME
(FIRST YEAR ADMISSION)
AY2026 Intake Onwards

SUMMARY OF ACADEMIC UNIT REQUIREMENT								
Year of Study	Major Requirements			Interdisciplinary Collaborative Core			BDE	Total AU
	School Core	CNYSP-Core	MPE	CC	Professional Series (PS)	Care, Serve, Learn		
1	14	27	0	5	0	0	0	46
2	12	6	0	5	3	3	7	36
3	26	0	6	0	6	0	2	40
4	8	0	12	0	0	0	0	20
Total	60	33	18	10	9	3	9	142

YEAR 1 SEMESTER 1				
Course Code	Course Title	Type	AU	Pre-Requisite/Remarks
CY1001	The Systems Architecture of Life	CNY-Core	3	CNYSP Courses
CY1101	Molecule	CNY-Core	4	
CY1308	Physics	CNY-Core	3	
CY1601	Mathematics I	CNY-Core	4	
IE2104*	Digital Electronics	C	3	
NH0007	Critical Perspectives on Technology and Society	CC	3	
			20	

YEAR 1 SEMESTER 2				
Course Code	Course Title	Type	AU	Pre-Requisite/Remarks
CY1007	Climate Change	CNY-Core	3	CNYSP Courses
CY1500	Introduction to Research	CNY-Core	2	
CY1602	Mathematics II	CNY-Core	4	
EG1001	Engineers in Society	C	2	
IM1002	Analog Electronics	C	3	
IM1003	Object-Oriented Programming	C	3	
IM1010	Digital Media Production and Strategies	C	3	
CC0015	Health & Wellbeing	CC	2	
			22	

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	Language & Logic	CNY-Core	3	CNYSP Course
IE5915	Undergraduate Research	BDE	IP	Course will be registered in Semester 2.
DA1000	Thinking and Communicating Visually I	C	3	
IE1005	From Computational Thinking to Programming	C	3	
CC0006	Sustainability: Society, Economy & Environment	CC	3	
ML0004	Career Design & Workplace Readiness in a Dynamic World	CC	2	
NH0001	Tech-For-Good Service Learning	CSL	3	Replaces Care, Serve, Learn
			17	

YEAR 2 SEMESTER 2				
Course Code	Course Title	Type	AU	Pre-Requisite/Remarks
CY0002	Ethics	CNY-Core	3	CNYSP Course
IE5915	Undergraduate Research	BDE	4	2-semester long, course registered only in Sem 2
IE2106	Engineering Mathematics I	C	3	
IE2108	Data Structure and Algorithm in Python	C	3	
IE0005	Introduction to Data Science & Artificial Intelligence	PS	3	
	Broadening and Deepening Elective 1	BDE	3	
			19	

YEAR 3 SEMESTER 1				
Course Code	Course Title	Type	AU	Pre-Requisite/Remarks
DA2002	Thinking and Communicating Visually II	C	3	DA1000
IE2110*	Signals and Systems	C	3	CY1601+CY1602
IE3017*	Computer Communications	C	3	IE2106
IE4758	Information Security	C	3	
IM2073	Introduction to Design & Project	C	2	
MLXXXX	Profession Preparation Course	PS	1	
	Broadening and Deepening Elective 2	BDE	2	
			17	

YEAR 3 SEMESTER 2				
Course Code	Course Title	Type	AU	Pre-Requisite/Remarks
DA3000	Thinking and Communicating Visually III	C	3	DA1000
IE3012*	Communication Principles	C	3	
IE4001	Software Engineering	C	3	
IM3180	Design & Innovation Project	C	3	IM2073
	Third-Year Technical Elective	MPE	3	
	Final Year Major Prescribed Elective 1	MPE	3	
			18	

YEAR 3 SPECIAL SEMESTER				
Course Code	Course Title	Type	AU	Pre-Requisite/Remarks
IM3910	Professional Attachment	PS	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
	Final Year Major Prescribed Elective 2	MPE	3	
	Final Year Major Prescribed Elective 3	MPE	3	
	Final Year Major Prescribed Elective 4	MPE	3	
	Final Year Major Prescribed Elective 5	MPE	3	
			12	
Total AU for Graduation:			142	

*These courses have laboratory codes, ExxxxL. Students must register for the mandatory codes during the registration period.