CURRICULUM FOR BACHELOR OF ENGINEERING (INFORMATION ENGINEERING & MEDIA)
WITH CN YANG SCHOLARS PROGRAMME
(FIRST YEAR ADMISSION)
AY2025 Intake Onwards

	SUMMARY OF ACADEMIC UNIT REQUIREMENT							
	Major Requirements			Interdisciplinary Collaborative Core				
Year of Study	School Core	CNYSP-Core	MPE	CC	Professional Series (PS)	Care, Serve, Learn	BDE	Total AU
1	11	27	0	2	3	0	3	46
2	12	10	0	8	0	3	0	33
3	26	0	6	0	6	0	2	40
4	8	0	12	0	0	0	0	20
Total	57	37	18	10	9	3	5	139

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	
EG1001	Engineers in Society	C	2	
IE1005	From Computational Thinking to Programming	C	3	
			21	

YEAR 1 SEMESTER 2				
Course Code	Course Title	Type	AU	Pre-Requisite/Remarks
CY1007	Climate Change	CNY-Core	3	CNYSP Courses
CY1602	Mathematics II	CNY-Core	4	
IE0005	Introduction to Data Science & Artificial Intelligence	PS	3	
IM1003	Object-Oriented Programming	C	3	
IM1002	Analog Electronics	C	3	
CC0015	Health & Wellbeing	CC	2	
	Broadening and Deepening Elective 1	BDE	3	
			21	

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
DA1000	Thinking and Communicating Visually I	C	3	
IE2104	Digital Electronics	C	3	
CC0006	Sustainability: Society, Economy & Environment	CC	3	
ML0004	Career Design & Workplace Readiness in the V.U.C.A. World	CC	2	
	Tech-For-Good (T4G)	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
CY2001	Research Attachment 1	CNY-Core	4	CNYSP Course 2-semester long, course registered only in Sem 2 (similar to URECA)
IE2106	Engineering Mathematics I	C	3	CY1602
IE2108	Data Structure and Algorithm in Python	C	3	
SP0061	Science & Technology for Humanity	CC	3	
			16	

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	
	Profession Preparation	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:		**139**	