## AY2022-23 CURRICULUM FOR COMPUTER ENGINEERING WITH CN YANG SCHOLARS PROGRAMME (FIRST YEAR ADMISSION)

Last Updated : 20-Apr-22

	SUMMARY OF ACADEMIC UNIT REQUIREMENT						
Year of Study	School Core	CNYSP-Core	MPE	СС	FC	BDE	Total AU
1	6	27	0	5	3	0	41
2	21	10	0	8	0	3	42
3	27	0	0	0	5	0	32
4	8	0	12	0	0	3	23
Total	62	37	12	13	8	6	138

	YEAR 1 SEMESTER 1				
<b>Course Code</b>	Course Title	Туре	AU	Pre-Requisite	
CY1001	Cell	CNY-Core	3		
CY1101	Molecule	CNY-Core	4		
CY1308	Physics	CNY-Core	3	CNYSP Courses	
CY1500	Introduction to Research	CNY-Core	2		
CY1601	Mathematics I	CNY-Core	4		
SC1003	Introduction to Computational Thinking and Programming	С	3		
CC0005	Healthy Living & Mental Wellbeing in an Aging Society	CC	3		
			22		

YEAR 1 SEMESTER 2				
<b>Course Code</b>	Course Title	Туре	AU	Pre-Requisite
CY1007	Climate Change	CNY-Core	3	CNYSP Courses
CY1602	Mathematics II	CNY-Core	4	Civior Courses
SC1005	Logic Design	С	3	
SC1015	Introduction to Data Science and Artificial Intelligence	FC	3	
DL0001	Navigating the Digital World	CC	2	
			15	

YEAR 1 SPECIAL SEMESTER				
<b>Course Code</b>	Course Title	Туре	AU	Pre-Requisite
CY2003	Research Attachment 3	CNY-Core	4	CNYSP Course
	Overseas Learning Trip			
			4	

YEAR 2 SEMESTER 1					
<b>Course Code</b>	Course Title	Туре	AU	Pre-Requisite	
CY0002	Ethics	CNY-Core	3	CNYSP Course	
CY1307	Quantum	BDE	3	Students can choose to opt out and replace with any other BDE course (3 AU)	
SC1006	Computer Organisation & Architecture	С	3		
SC1007	Data Structures and Algorithms	С	3		
MH1812	Discrete Mathematics	С	3		
CC0007	Science & Technology for Humanity	CC	3		
			18		

ENG 1

Course Title  Triting Across the Disciplines  Pasearch Attachment 1	Type CNY-Core	<b>AU</b> 3	Pre-Requisite CNYSP Course
	CNY-Core	3	577757 5557755
osearch Attachment 1			CNIVED Course
Scaron Actaonment 1	CNY-Core	4	CNYSP Course 2-semester long, course registered only in Sem 2 (similar to URECA)
obability and Statistics for Computing	С	3	
gorithm Design and Analysis	С	3	
bject Oriented Design & Programming	С	3	
gital System Design	С	3	
stainability: Society, Economy & Environment	CC	3	
areer and Entrepreneurial Development for the Future World	СС	2	
ol go gi ist	orithm Design and Analysis ect Oriented Design & Programming tal System Design cainability: Society, Economy & Environment	pability and Statistics for Computing Corithm Design and Analysis Corect Oriented Design & Programming Cotal System Design	pability and Statistics for Computing  C 3  prithm Design and Analysis  C 3  ect Oriented Design & Programming  C 3  tal System Design  C 3  cainability: Society, Economy & Environment  CC 3

	YEAR 3 SEMESTER 1				
<b>Course Code</b>	Course Title	Туре	AU	Pre-Requisite	
SC2104	Sensors, Interfacing & Digital Control	С	3		
SC2107	Microprocessor System Design and Development	С	3		
SC2005	Operating Systems	С	3		
SC2079	Multidisciplinary Design Project	С	4		
EG1001	Engineers in Society	С	2		
			15		

YEAR 3 SEMESTER 2					
<b>Course Code</b>	Course Title	Туре	AU	Pre-Requisite	
SC2006	Software Engineering	С	3		
SC2008	Computer Networks	С	3		
SC3102	Signal, Systems and Transform	С	3		
SC3103	Embedded Programming	С	3		
			12		

YEAR 3 SPECIAL SEMESTER				
Course Code	Course Title	Туре	AU	Pre-Requisite
SC3080	Professional Attachment	FC	5	
			5	

YEAR 4 SEMESTER 1				
<b>Course Code</b>	Course Title	Туре	AU	Pre-Requisite
SC4211	CNYSP Overseas Final Year Project	С	8	CNYSP Course
			8	

	YEAR 4 SEMESTER 2				
<b>Course Code</b>	Course Title	Туре	AU	Pre-Requisite	
SC4XXX	Major PE 1	MPE	3		
SC4XXX	Major PE 2	MPE	3		
SC4XXX	Major PE 3	MPE	3		
SC4XXX	Major PE 4	MPE	3		
XXXXXX	Broadening and Deepening Elective 1	BDE	3		
			15		

Total AU for Graduation: 138

ENG 2