AY2021-22 CURRICULUM FOR BACHELOR OF ENGINEERING (CHEMICAL & BIOMOLECULAR ENGINEERING) WITH CN YANG SCHOLARS PROGRAMME (FIRST YEAR ADMISSION)

Last Updated :									
	SUMMARY OF ACADEMIC UNIT REQUIREMENT								
Year of Study	ear of Study Core CNYSP-Core MPE CC FC BDE Total AU								
1	12	27	0	5	0	0	44		
2	26	10	0	8	3	0	47		
3	25	0	0	0	5	0	30		
4	8	0	6	0	0	3	17		
Total	71	37	6	13	8	3	138		

	YEAR 1 SEMESTER 1				
Course Code	Course Title	Туре	AU	Pre-Requisite/Remarks	
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		
CB1102	Introduction to Chemical and Biomedical Engineering	С	1		
CB1131	Introduction to Biomolecular Engineering	С	3		
CC0002	Navigating the Digital World	CC	2		
			22		

	YEAR 1 SEMESTER 2			
Course Code	Course Title	Туре	AU	Pre-Requisite/Remarks
CY1007	Climate Change	CNY-Core	3	CNYSP Courses
CY1602	Mathematics II	CNY-Core	4	CNTSP Courses
CB1103	Organic Chemistry For Engineers	С	3	
CH1104	Materials & Energy Balance	С	3	
EG1001	Engineers in Society	С	2	
CC0005	Healthy Living & Mental Wellbeing in an Aging Society	CC	3	
			18	

	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	Туре	AU	Pre-Requisite/Remarks	
CY2001	Research Attachment 1	CNY-Core	2	CNYSP Courses	
CY0002	Ethics	CNY-Core	3	CNYSP Courses	
CH2103	Fluid Systems	С	3		
CH2107	Introduction to Computational Thinking	С	3		
CH2108	Thermodynamics	С	3		
CH2010	Engineering Statistics	С	3		
CC0006	Sustainability: Society, Economy & Environment	CC	3		
ML0004	Career and Entrepreneurial Development for the Future World	CC	2		
			22		

	YEAR 2 SEMESTER 2			
Course Code	Course Title	Туре	AU	Pre-Requisite/Remarks
CY0001	Writing Across the Disciplines	CNY-Core	3	CNYSP Courses
CY2001	Research Attachment 1	CNY-Core	2	CNTSF Courses
CH2112	Chemical Reaction Engineering	С	3	
CH2114	Heat & Mass Transfer in Chemical and Biological Systems	С	3	
CH2123	Chemical Thermodynamics	С	3	
CH2151	Unit Operations A	С	3	
CH2802	Chemical & Biomolecular Engineering Laboratory 2B	С	2	
CB0494	Introduction to Data Science and Artificial Intelligence	FC	3	
CC0007	Science & Technology for Humanity	CC	3	
			25	

	YEAR 3 SEMESTER 1				
Course Code	Course Title	Type	AU	Pre-Requisite/Remarks	
CH3104	Biochemical Engineering	С	3		
CH3109	Decision Tools for Business & Engineering	С	3		
CH3111	Process Control and Dynamics	С	3		
CH3121	Chemical, Biological & Plant Safety	С	2		
CH3140	Unit Operations B	С	3		
CH3802	Chemical & Biomolecular Engineering Laboratory 5	С	3		
			17		

	YEAR 3 SEMESTER 2				
Course Code	Course Title	Type	AU	Pre-Requisite/Remarks	
CH4211	CNYSP Overseas Final Year Project	С	8	CNYSP Course	
			8		

YEAR 3 SPECIAL SEMESTER				
Course Code	Course Title	Туре	AU	Pre-Requisite/Remarks
CH3885	Professional Attachment	FC	5	
			5	

	YEAR 4 SEMESTER 1				
Course Code	Course Title	Type	AU	Pre-Requisite/Remarks	
CH4801	Final Year Design Project	С	4		
CY1307	Quantum	BDE	3	Students can choose to opt out and replace with any other BDE course (3 AU)	
	CBE PE 1	MPE	3		
			10		

	YEAR 4 SEMESTER 2				
Course Code	Course Title	Туре	AU	Pre-Requisite/Remarks	
CH4801	Final Year Design Project	С	4		
	CBE PE 2	MPE	3		
			7		
Total AU for Graduation			138		

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