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CNYang Scholars Programme (AY2023-24)

Last Update: 13-Oct-23

Academic Unit (AU) Required for graduation

Year of Study	Core	CNYSP Core	MPE	CC	FC	BDE	Total AU
1	9	27	-	5	-	-	41
2	15	10	-	8	-	3	36
3	30	-	-	-	8	-	38
4	10	-	9	-	-	3	22
	64	37	9	13	8	6	137

Year 1 (AY2023-24) - Semester 1

Course Code and Title	Course Type	AU
CC0005 Healthy Living & Wellbeing	CC	3
CY1001 Cell	CNYSP Core	3
CY1101 Molecule	CNYSP Core	4
CY1308 Physics	CNYSP Core	3
CY1500 Introduction to Research	CNYSP Core	2
CY1601 Mathematics I	CNYSP Core	4
Total		19

Year 1 (AY2023-24) - Semester 2

Course Code and Title	Course Type	AU
CC0002 Navigating the Digital World	CC	2
EG1001 Engineer & Society	Core	2
CY1007 Climate Change	CNYSP Core	3
CY1602 Mathematics II	CNYSP Core	4
MS1008 Introduction to Computational Thinking	Core	3
MS1014 Materials Chemistry II	Core	2
MS1018 Properties of Materials	Core	2
MS2013 Introduction to Polymer Science	Core	3
Total		21

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Year 1 (AY2023-24) - Special Term		
Course Code and Title	Course Type	AU
CY2003 Research Attacment 3	CNYSP Core	4
Overseas Learning Trip		
Total		4

Year 2 (AY2024-25) - Semester 1		
Course Code and Title	Course Type	AU
SP0061 Science & Technology for Humanity	CC	3
CY0001 Writing Across the Disciplines	CNYSP Core	3
CY1307 Quantum	BDE (Optional i.e. students can take any other BDE)	3
MS1016 Thermodynamics of Materials	Core	3
MS1017 Introduction to Materials Science	Core	2
MS2012 Introduction to Manufacturing Processes	Core	3
Total		17

Year 2 (AY2024-25) - Semester 2		
Course Code and Title	Course Type	AU
ML0004 Career and Entrepreneurial Development for the Future World	CC	2
CC0006 Sustainability: Society, Economy & Environment	CC	3
CY0002 Ethics	CNYSP Core	3
CY2001 Research Attachment 1	CNYSP Core	4
MS2014 Materials Structure and Defects	Core	3
MS2018 Electronic & Magnetic Properties of Materials	Core	3
MS2083 Laboratory on Structure-Property Relationship in Polymers	Core	1
Total		19

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Year 3 (AY2025-26) - Semester 1

Course Code and Title	Course Type	AU
MS2015 Mechanical Behaviour of Materials	Core	3
MS2016 Introduction to Metallurgy	Core	2
MS3011 Metallic & Ceramic Materials	Core	3
MS3082 Design Lab	Core	1
MS4012 Quality Control	Core	3
MS4013 Biomaterials	Core	2
Total		14

Year 3 (AY2025-26) - Semester 2

Course Code and Title	Course Type	AU
MS0003 Introduction to Data Science and Artificial Intelligence	FC	3
MS3012 Micro/Nanoelectronic Materials Processing	Core	3
MS3013 Electrochemical Corrosion	Core	3
MS3014 Analysis of Materials	Core	3
MS3015 Industrial Design	Core	3
MS2084 Phase Transformations and Kinetics in Steels	Core	1
Total		16

Year 3 (AY2025-26) - Special Term

Course Code and Title	Course Type	AU
MS3096 Professional Attachment	FC	5
Total		5

Year 4 (AY2026-27) - Semester 1

Course Code and Title	Course Type	AU
MS4211 CNYSP Overseas FYP	Core	8
Total		8

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Year 4 (AY2026-27) - Semester 2		
Course Code and Title	Course Type	AU
MS4014 Nanomaterials: Fundamentals and Applications	Core	2
MPE1	MPE	3
MPE2	MPE	3
MPE3	MPE	3
BDE1	BDE	3
Total		14
	Total AU for Graduation	137