CURRICULUM FOR BACHELOR OF SCIENCE (APPLIED PHYSICS) WITH SECOND MAJOR IN MEDICAL PHYSICS CN YANG SCHOLARS PROGRAMME (FIRST YEAR ADMISSION) AY2025 Intake Onwards

	SUMMARY OF ACADEMIC UNIT REQUIREMENT							
Year of Study	Core	CNYSP- Core	MPE	СС	Professional Series	Care, Serve & Learn	BDE	Total AU
1	10	27 [3]	0	2	3	0	3	45 [3]
2	21	10	3	8	0	3	0	45
3	9	0	0	0	1	0	31	41
4	12	0	0	0	10	0	0	22
Total	52	37 [3]	3	10	14	3	34	153 [3]

[] AU of courses that could be used to fulfil Core requirement and second major requirement concurrently

	YEAR 1 SEMESTER 1					
Course Code	Course Title	Туре	AU	Remarks		
CY1001	Cell	CNYSP-Core	3	Mutually exclusive with BS1001 Required course for second major		
CY1101	Molecule	CNYSP-Core	4			
CY1308	Physics	CNYSP-Core	3			
CY1500	Introduction to Research	CNYSP-Core	2			
CY1601	Mathematics I	CNYSP-Core	4			
PH1198	Physics Lab IA	С	2			
PS0001	Introduction to Computational Thinking	С	3			
CC0015	Health & Wellbeing	CC	2			
			23			

YEAR 1 SEMESTER 2					
Course Code	Course Title	Туре	AU	Remarks	
CY1007	Climate Change	CNYSP-Core	3		
CY1602	Mathematics II	CNYSP-Core	4		
PH1107	Relativity and Quantum Physics	С	3		
PH1199	Physics Lab IB	С	2		
PS0002	Introduction to Data Science and Artificial Intelligence	PS	3		
BS1007	Molecular & Cell Biology 1	BDE	3	Required course for second major	
			18		

YEAR 1 SPECIAL TERM					
Course Code	Course Title	Туре	AU	Remarks	
CY2003	Research Attachment 3 (Making and Tinkering)	CNYSP-Core	4		
	Overseas Learning Trip				
			4		

	YEAR 2 SEMESTER 1					
Course Code	Course Title	Type	AU	Remarks		
CY0001	Writing Across The Disciplines	CNYSP-Core	3			
CY2001	Research Attachment 1	CNYSP-Core	ΙP	Course will be registered in Semester 2. Grades will be recorded at the end of Semester 2		
PH1105	Optics, Vibrations and Waves	С	3			
PH2102	Electromagnetism	С	4	CY1601 & CY1602 & CY1308		
PH2103	Thermal Physics	С	4	CY1602 & CY1308		
PH2198	Physics Lab IIA	С	2	PH1198		
	Tech-For-Good	CSL	3			
CC0006	Sustainability: Society, Economy & Environment	CC	3			
ML0004	Career Design & Workplace Readiness in the V.U.C.A World	СС	2			
			24			

YEAR 2 SEMESTER 2					
Course Code	Course Title	Туре	AU	Remarks	
CY0002	Ethics	CNYSP-Core	3		

CY2001	Research Attachment 1	CNYSP-Core	1 4	2-semester long, course registered only in Sem 2 (similar to URECA)
PH2101	Quantum Mechanics 1	С	3	CY1601 & CY1602 & PH1107
PH2199	Physics Lab IIB	С	2	PH1199
PH2301	Physical Optics	С	3	PH1105
PHXXXX	Physics Prescribed Elective 1	MPE	3	
SP0061	Science & Technology for Humanity	CC	3	
			21	

YEAR 3 SEMESTER 1					
Course Code	Course Title	Type	AU	Remarks	
PH3101	Quantum Mechanics II	С	4	MH2801 & PH2101	
PH3103	Technological Applications of Quantum Mechanics	С	3	PH2101	
BG2119	Anatomy & Physiology	BDE	3	Required course for second major	
PH3301	Introduction to Advanced Biomedical Imaging	BDE	3	Required course for second major	
PHXXXX	Second Major Elective 1	BDE	3	Elective list	
BSXXXX	Second Major Elective 2	BDE	3	<u>Elective list</u>	
MLXXXX	Profession Preparation	PS	1		
			20		

YEAR 3 SEMESTER 2					
Course Code	Course Title	Туре	AU	Remarks	
PH3199	Physics Lab IIIa	С	2	PH2198 and PH2199	
PH3302	Magnetic Resonance Imaging	BDE	3	Required course for second major	
PH3303	Biomechanics and Exercise Physiology	BDE	3	BG2119 Required course for second major	
PH4605	Medical Physics for Radiotherapy	BDE	4	PH3101 Required course for second major	
PHXXXX	Second Major Elective 3	BDE	3	Elective List	
BSXXXX	Second Major Elective 4	BDE	3	<u>Liective List</u>	
	Broadening and Deepening Elective 1	BDE	3		
			21		

YEAR 3 SPECIAL SEMESTER & YEAR 4 SEMESTER 1					
Course Code	Course Title	Туре	AU	Remarks	
PH4111	Overseas Final Year Project	С	12		
			12		

YEAR 4 SEMESTER 2					
Course Code	Course Title	Туре	AU	Remarks	
PH4420	Professional Internship	PS	10		
			10		
Total AUs required for Graduation:		153			