## B.Eng (Hons) in Chemical and Biomolecular Engineering with 2nd Major in Entrepreneurship

with Professional Internship

AY2025 - 2026 Intake onwards (CBET)

		Number of Academic Units (AU)								
Programme	Year of Study	Major Requirement		Interdisciplinary Collaborative Core			Broadening and	Total		
	,	Core (C)	Major PE (MPE)	Common Core (CC)	Professional Series (PS)	Care, Serve, Learn (CSL)	Deepening Electives (BDE)			
Chemical &	1	24		6			6	36		
Biomolecular	2	28		8	3		6	45		
Engineering with	3	17			13 [5]			30 [5]		
Second Major	4	8	6			3	13	30		
Entrepreneurship (CBET)	Total	77	6	14	16 [5]	3	25	141		

78\* 142\*

Category			AU	Total AU			
	Common	Core (CC)					
	CC0001	Inquiry and Communication in the Interdisciplinary World	2				
	CC0003	Ethics & Civics in a Multi-Cultural World	2				
	CC0006	Sustainability: Society, Economy & Environment	3				
	CC0007	Science & Technology for Humanity	3	14			
Interdisciplinary	CC0015	Health & Wellbeing	2				
	ML0004	Career Design & Workplace Readiness in the V.U.C.A World	2				
	Professional Series (PS)						
Collaborative	CB0494	Introduction to Data Science and Artificial Intelligence	3				
Core (ICC)	HW0288	Engineering Communication	2				
	MLXXXX		1				
		·		16			
	CH3940	Overseas Entrepreneurship Programme (OEP)					
		OR	10				
	CH3920	Professional Internship (PI)					
	Care, Service, Learn (CSL)						
		Service Learning	3	3			
	CBE Core						
	EG1001	Engineers In Society	2				
Major	MH1810	Math 1	3				
	PH1011*	Physics	3				
	CB1102	Introduction to Chemical and Biomedical Engineering	1	22			
Requirement	CB1103	Organic Chemistry For Engineers	3				
	CB1117	Engineering Mathematics	4				
	CB1131	Introduction to Biomolecular Engineering	3				
	CH1104	Materials & Energy Balance	3				

	CH1801	Chemical & Biomolecular Engineering Laboratory 1A	1		
	CH1802	Chemical & Biomolecular Engineering Laboratory 2	1		
	CH2010	Engineering Statistics	3		
	CH2103	Fluid Systems	3		
	CH2107	Introduction to Computational Thinking	3		
	CH2108	Thermodynamics	3		
	CH2112	Chemical Reaction Engineering	3		
	CH2114	Heat & Mass Transfer in Chemical and Biological Systems	3		
	CH2123	Chemical Thermodynamics	3		
	CH2151	Unit Operations: Fluid-Solid Separation	3		
	CHZIJI	·			
Major Requirement	CH2801	Chemical & Biomolecular Engineering Laboratory 2A	2	55	
	CH2802	Chemical & Biomolecular Engineering Laboratory 2B	2		
	CH3104	Biochemical Engineering	3		
	CH3109	Decision Tools for Business & Engineering	3		
	CH3111	Process Control and Dynamics	3		
	CH3121	Chemical, Biological & Plant Safety	2		
	CH3140	Unit Operations: Fluid-Fluid Separation	3		
	CH3802	Chemical & Biomolecular Engineering Laboratory 5	3		
	CH4801	Final Year Design Project	8		
	C114001	Tillul Tear Design Frojece			
	CBE Majo		6		
	, ,		•		
	Compulso	ory Courses			
	ET5211	Technopreneurial Mindset	3		
	ET5212	Entrepreneurial Ecosystems	3		
	ET5213	Managing New Ventures	3		
	ET5214	Financing Entrepreneurial Ventures	3		
2nd Major in		En establish December		25	
Entrepreneurship					
(BDEs)	CH3940	Overseas Entrepreneurship Programme (OEP)			
		OR	NA		
	CH3920	Professional Internship (PI)			
	Elective C	ourses (at least 4 courses)	13		
				4	
Total				141	
				142*	

<sup>142\*</sup> 

<sup>\*</sup>Students without 'A' Level Physics will take 'PH1012 Physics A' (4AU).

<sup>^</sup>Counted towards 2nd Major in Entrepreneurship requirement (total 10AU)

/ear 1 So	emester 1				Year 1 Se	mester 2	
Course	emester i	Туре	AU		Course	mester 2	Туре
B1102	Introduction to Chemical and Biomedical Engineering	С	1		CB1103	Organic Chemistry For Engineers	С
CB1131	Introduction to Biomolecular Engineering	С	3		CB1117	Engineering Mathematics	С
CH1801	Chemical & Biomolecular Engineering Laboratory 1A	С	1		CH1104	Materials & Energy Balance	С
ИН1810	Math 1	С	3		CH1802	Chemical & Biomolecular Engineering Laboratory 2	С
PH1011	Physics	С	3		EG1001	Engineers in Society	С
PH1012	or Physics A (* For students without 'A' Level		4		CC0003 CC0015	Ethics & Civics in a Multi-Cultural World Health & Wellbeing	CC
CC0001	Physics) Inquiry and Communication in the	СС	2		ET5213	Managing New Ventures	BDE
ET5211	Interdisciplinary World Technopreneurial Mindset	BDE	3			gg	
			16	_* 17			
'ear 2 Se	emester 1				Year 2 Se	mester 2	
Course	FiritOutous	Туре	AU		Course	Observed Boosting E	Туре
CH2103 CH2107	Fluid Systems	C C	3		CH2112 CH2114	Chemical Reaction Engineering Heat & Mass Transfer in Chemical and	C C
	Introduction to Computational Thinking					Biological Systems	
H2108 H2010	Thermodynamics Engineering Statistics	C C	3 3		CH2123 CH2151	Chemical Thermodynamics Unit Operations: Fluid-Solid Separation	C C
H2801	Chemical & Biomolecular Engineering Laboratory 2A	С	2		CH2802	Chemical & Biomolecular Engineering Laboratory 2B	С
1L0004	Career Design & Workplace Readiness in the V.U.C.A World	CC	2		CC0007	Science & Technology for Humanity	CC
C0006	Sustainability: Society, Economy & Environment	СС	3		CB0494	Introduction to Data Science and Artificial Intelligence	PS
ET5212	Entrepreneurial Ecosystems	BDE	3		ET5214	Financing Entrepreneurial Ventures	BDE
				_			
			22				
	emester 1	_			Year 3 Se	mester 2	_
Course CH3104	Biochemical Engineering	<b>Type</b> C	<b>AU</b> 3	_	^CH3940	Overseas Entrepreneurship Programme	Type PS
CH3109	Decision Tools for Business & Engineering	С	3			OR	
CH3111	Process Control and Dynamics	С	3		^CH3920	Professional Internship	PS
H3121 H3140	Chemical, Biological & Plant Safety Unit Operations: Fluid-Fluid Separation	C C	2				
	Chemical & Biomolecular Engineering						
H3802	Laboratory 5	С	3				
	Engineering Communication Professional Preparation	PS PS	2 1				
	·		20	_			
HW0288 MLXXXX					Year 4 Se	mester 2	
MLXXXX	emester 1				Course		Туре
/ILXXXX /ear 4 Se	emester 1	Туре	AU	_			
ear 4 Se	emester 1 Final Year Design Project	<b>Type</b>	<b>AU</b> 4	_	CH4801	Final Year Design Project	С
//LXXXX /ear 4 Se		C MPE		_	CH4801	CBE PE 2	MPE
ear 4 Se	Final Year Design Project  CBE PE 1  Service Learning	C MPE CSL	4 3 3	_	CH4801	CBE PE 2 Entrepreneurship Elective 3	MPE BDE
/ear 4 Se	Final Year Design Project CBE PE 1	C MPE	4 3	_	CH4801	CBE PE 2	
MLXXXX	Final Year Design Project  CBE PE 1 Service Learning Entrepreneurship Elective 1	C MPE CSL BDE	4 3 3 3 4		CH4801	CBE PE 2 Entrepreneurship Elective 3	MPE BDE
//LXXXX /ear 4 Se	Final Year Design Project  CBE PE 1 Service Learning Entrepreneurship Elective 1	C MPE CSL BDE	4 3 3 3		CH4801	CBE PE 2 Entrepreneurship Elective 3	MPE BDE

<sup>\*</sup>Students without 'A' Level Physics will take 'PH1012 Physics A' (4AU). ^Counted towards 2nd Major in Entrepreneurship requirement (total 5AU)