B.Eng (Hons) in Bioengineering with 2nd Major in Business (Mainstream)

with Professional Internship

AY2025 - 2026 Intake onwards (BEBM)

	Year of Study	Number of Academic Unit (AU)							
Programme		Major Requirement		Interdiscip	nary Collaborative Core		Broadening and Deepening	Total	
		Core Major PE			Professional Series	Care, Serve,	Electives (BDE)		
		(C)	(MPE)	(CC)	(PS)	Learn (CSL)	(552)		
Bioengineering	1	21		6			6	33	
with Second	2	27		8	3		6	44	
	3	13			13		6	32	
Major in Business	4	17	6			3	12	38	
	Total	78	6	14	16	3	30	147	

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Category			AU	Total AU
	Common			
	CC0001	2		
	CC0003	Inquiry and Communication in the Interdisciplinary World Ethics & Civics in a Multi-Cultural World	2	
	CC0006	Sustainability: Society, Economy & Environment	3	1.4
	CC0007	Science & Technology for Humanity	3	14
	CC0015	Health & Wellbeing	2	
	ML0004	Career Design & Workplace Readiness in the V.U.C.A World	2	
Interdisciplinary				
Collaborative				
Core (ICC)	Professio	nal Series (PS)		
	CB0494	Introduction to Data Science and Artificial Intelligence	3	
	l .	Engineering Communication	2	16
	I	Professional Preparation	1	
	BG3920	Professional Internship	10	
	Caro Son	vice, Learn (CSL)		
	Care, Ser		3	3
		Service Learning	3	3
	BIE Core		_	
	EG1001	Engineers In Society	2	
	MH1810	Math 1 Physics	3	
Major	PH1011*	Introduction to Chemical and Biomedical	3	
Requirement	CB1102	Engineering	1	20
	CB1103	Organic Chemistry For Engineers	3	
	CB1117	Engineering Mathematics	4	
	BG1141	Cellular & Molecular Biology for Bioengineers	3	
	BG1801	Bioengineering Lab 1A	1	

BM2509	Consumer Insights	3			
BF2219	Investments Consumer Insights	3			
BE2602	Management in Principles, Skills & Competencies	3			
AD2102	Management Accounting	3			
Advanced Business Courses					
BE1402	Business Operations & Process	3	30		
AD1102 BE1402	Financial Accounting Business Operations & Process	3 3			
AB1601	Organisational Behaviour & Design	3			
AB1501	Marketing	3			
AB1301	Business Law	3			
AB1201	Financial Management	3			
Foundatio	on Business Courses				
DIE IVIAJOI	Treserves (Wit L)		<u> </u>		
RIE Major	Prescribed Electives (MPE)		6		
BG4801	Final Year Project	8			
BG4122	Medical Device Design	6			
BG4104	Machine Learning and Optimization for Bioengineers	3			
BG3801	Bioengineering Lab 3	1			
BG3112	Cardiovascular Engineering	3			
BG3105	Biomedical Instrumentation	3			
BG3104	Biomedical Imaging	3			
BG3102	Control in Biosystems	3			
BG2802	Bioengineering Lab 2B	1			
BG2801	Bioengineering Lab 2A	1	58		
BG2211	Introduction to Computational Thinking	3			
BG2209	Mechanics for Bioengineers	3			
BG2142	Biological Thermodynamics	3			
BG2131	Biomaterials	3			
BG2119	Anatomy and Physiology	3			
BG2110	Bioelectricity	3			
BG2104					
BG2103	Signal Processing in Biosystems	3			
CB2002	Introduction to Chemical and Biological Safety	1			
BG1802	Bioengineering Lab 1B	1			
CE BC	32002 52103 52104	Introduction to Chemical and Biological Safety Signal Processing in Biosystems Electronics for Biomedical Engineering	1 Introduction to Chemical and Biological Safety 1 Signal Processing in Biosystems 3 Electronics for Biomedical Engineering 3		

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^{*}Students without 'A' Level Physics will take 'PH1012 Physics A' (4AU).

Suggeste	Bioengineering) with 2nd Major in Business of Study Plan for AY2025-2026 intake (BEBM) essional Internship	(Mainsti	ream)					
Year 1 Semester 1 Course		Туре	AU	_	Year 1 S Course	emester 2	Туре	AU
CB1102	Introduction to Chemical and Biomedical Engineering	С	1	_	CB1103	Organic Chemistry For Engineers	С	3
BG1141	Cellular & Molecular Biology for Bioengineers	С	3		CB1117	Engineering Mathematics	С	4
BG1801	Bioengineering Lab 1A	С	1		BG1802	Bioengineering Lab 1B	С	1
MH1810	Math 1	С	3		EG1001	Engineers in Society	С	2
PH1011	Physics or	С	3		CC0003 CC0015	Ethics & Civics in a Multi-Cultural World Health & Wellbeing	CC	2 2
PH1012	Physics A (*For students without 'A' Level Physics)	С	4		AB1501	Marketing	BDE	3
CC0001	Inquiry and Communication in the Interdisciplinary World	CC	2					
AB1201	Financial Management	BDE	3					
			16	-* 17				17
	emester 1	_				emester 2	_	
Course BG2119	Anatomy and Physiology	Type	<u>AU</u> 3	-	BG2103	Signal Processing in Biosystems	Type C	AU 3
BG2131	Biomaterials	С	3			Electronics for Biomedical Engineering	С	3
BG2142	Biological Thermodynamics	С	3		BG2110		С	3
BG2211	Introduction to Computational Thinking	C	3			Mechanics for Bioengineers	Č	3
BG2801	Bioengineering Lab 2A	С	1		BG2802	Bioengineering Lab 2B	С	1
ML0004	Career Design & Workplace Readiness in the V.U.C.A World	CC	2		CB2002	Introduction to Chemical and Biological Safety	С	1
CC0006	Sustainability: Society, Economy & Environment	CC	3		CC0007	Science & Technology for Humanity	CC	3
AD1102	Financial Accounting	BDE	3		CB0494	Introduction to Data Science and Artificial Intelligence	PS	3
					AB1601	Organisational Behavior and Design	BDE	3
			21	-	-			23
	emester 1	Time	A11		Year 3 S Course	emester 2	Tuma	A11
Course BG3102	Control in Biosystems	Type C	3	-		Professional Internship	Type PS	AU 10
	Biomedical Imaging	С	3			·		
	Biomedical Instrumentation Cardiovascular Engineering	C C	3 3					
BG3801	5 5	C	1					
HW0288	Engineering Communication	PS	2					
	Professional Preparation	PS	1					
AB1301	Business Law	BDE	3					
AD2102	Management Accounting	BDE	3					
			22	-				10
	emester 1	Tuess	A			emester 2	T	A
Course	Machine Learning and Optimization for	Туре	AU	-	Course		Туре	AU
BG4104	Bioengineers	С	3			Medical Device Design	С	3
BG4122 BG4801	Medical Device Design Final Year Project	C C	3 4		BG4801	Final Year Project BIE PE 1	C MPE	4 3
1 V040U	Service Learning	CSL	3			BIE PE 1 BIE PE 2	MPE	3
BE2602	Management in Principles, Skills & Competencies	BDE	3		BE1402	Business Operations and Processes	BDE	3
BF2219	Investments	BDE	3		BM2509	Consumer Insights	BDE	3
			19	=				19
						Total (AU)		147
								148*

^{*}Students without 'A' Level Physics will take 'PH1012 Physics A' (4AU).