

## B.Eng (Hons) in Bioengineering (BIE) - ABP

AY2022 - 2023 Intake onwards

with Professional Attachment

Programme	Year of Study	Number of Academic Units (AU)					
		Major Requirement		Interdisciplinary Collaborative Core		Broadening and Deepening Electives (BDE)	Total
		Core (C)	Major PE (MPE)	Common Core (CC)	Foundational Core (FC)		
Bioengineering	1	21/22*		9		9	39/40*
	2	26		8	3		37
	3	27	3		7	6	43
	4	3	3			11	17
	Total	77/78*	6	17	10	26	136/137*

## Accelerated Bachelor Programme (ABP)

Category		AU	Total AU
Interdisciplinary Collaborative Core (ICC)	<b>Common Core (University-level)</b>		
	CC0001 Inquiry and Communication in the Interdisciplinary World	2	17
	CC0002 Navigating the Digital World	2	
	CC0003 Ethics & Civics in a Multi-Cultural World	2	
	CC0005 Healthy Living & Wellbeing	3	
	CC0006 Sustainability: Society, Economy & Environment	3	
	CC0007 Science & Technology for Humanity	3	
	ML0004 Career and Entrepreneurial Development for the Future World	2	
	<b>Foundational Core (College-level)</b>		
Major Requirement	HW0288 Engineering Communication	2	10
	CB0494 Introduction to Data Science and Artificial Intelligence	3	
	BG3885 Professional Attachment	5	

Major Requirement	CB1117	Engineering Mathematics	4	65
	BG1141	Fundamental Biology for Bioengineers	3	
	BG1801	Bioengineering Lab 1A	1	
	BG1802	Bioengineering Lab 1B	1	
	BG2103	Signal Processing in Biosystems	3	
	BG2104	Electronics for Biomedical Engineering	3	
	BG2110	Bioelectricity	3	
	BG2119	Anatomy and Physiology	3	
	BG2131	Biomaterials	3	
	BG2142	Biological Thermodynamics	3	
	BG2209	Mechanics for Bioengineers	3	
	BG2211	Introduction to Computational Thinking	3	
	BG2801	Bioengineering Lab 2A	1	
	BG2802	Bioengineering Lab 2B	1	
	BG3102	Control in Biosystems	3	
	BG3104	Biomedical Imaging	3	
	BG3105	Biomedical Instrumentation	3	
	BG3112	Biofluid Mechanics and Medical Devices	3	
	BG3801	Bioengineering Lab 3	1	
	BG4104	Machine Learning and Optimization for Bioengineers	3	
	BG4122	Medical Device Design	6	
	BG4801	Final Year Project	8	
	BIE Major Prescribed Electives (MPE)			6
Broadening and Deepening Electives (BDE)			26	
Total			136/137*	

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

**Suggested Study Plan for AY2022-2023 intake (ABP)**  
*with Professional Attachment*

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