

**List of courses that contribute towards the**

**BEng (Computer Engineering) CGPA computation under the  
Business and BEng (CE) Double Degree Programme (BCE)**

Applicable to Students Admitted from AY18/19 onwards

		<b>BEng (CE)</b>	<b>AU Load</b>
Discipline Requirements	Core	MH1812 Discrete Mathematics	3
		CE1011 Engineering Mathematics I	3
		CE1012 Engineering Mathematics II	3
		CE1003 Introduction to Computational Thinking	3
		CE1005 Digital Logic	3
		CE1006 Computer Organisation and Architecture	3
		CE1007 Data Structures	3
		CE1013 Physics for Computing	2
		CE2001 Algorithms	3
		CE2002 Object Oriented Design and Programming	3
		CE2003 Digital Systems Design	3
		CE2004 Circuits and Signal Analysis	3
		CE2005 Operating Systems	3
		CE2006 Software Engineering	3
		CE2007 Microprocessor-based Systems Design	3
		CE3001 Advanced Computer Architecture	3
		CE3002 Sensors, Interfacing and Control	3
		CE3003 Microcontroller Programming	3
		CE3004 Multidisciplinary Design Project	4
		CE3005 Computer Networks	3
CE3006 Digital Communications	3		
CE3007 Digital Signal Processing	3		
CE3079 Professional Internship <sup>1</sup>	<b>11</b>		
CE4079 Final Year Project	8		
			<b>(85)</b>
Major PE		CE4xxx Technical Elective 1	3
		CE4xxx Technical Elective 2	3
		CE4xxx Technical Elective 3	3
		<b>BCxxxx Business/CS Integration 1</b>	4
		<b>BCxxxx Business/CS Integration 2</b>	4
		<b>BCxxxx Business/CS Integration 3</b>	4
		(Choose best 3 BCxxxx to be included in the CGPA except <b>BC2402, BC2406 and BC2407</b> )	
			<b>(21)</b>



General Education Requirements (GER)	Core	EG0001 Engineers & Society GC0001 Sustainability: Seeing Through The Haze HY0001 Ethics & Moral Reasoning ET0001 Enterprise & Innovation HW0188 Engineering Communication I <sup>2</sup> HW0288 Engineering Communication II & ML0003 by MLCPS <sup>3</sup> CE1015 Introduction to Data Science and Artificial Intelligence	3 1 1 1 2 4 3 <b>(15)</b>
	PE	<b>AB1201 Financial Management (BM)</b> <b>HE5091 Principles of Economics (LA)</b> Science & Technology (STS)	3 3 3 <b>(9)</b>
	UE	Unrestricted Electives  Unrestricted Electives <b>(Choose best 9 AUs from all ABxxxx, ADxxx, except AB0601, AB0602, AB1301, AB1001, AB1201, AB1002, AB1003. Note that BCxxxx are not to be included in the basket of choices)</b>	3  9 <b>(12)</b>
<b>Grand Total</b>			<b>142<sup>1</sup></b>

1. CE3079 Professional Internship is jointly fulfilled by
- AB1001 Career Foundations (1AU)
  - AB1002 Career Readiness (1AU)
  - AB1003 Professional Attachment (5AU)
  - AB3601 Strategic Management (4AU)

The above replacement BBus courses add up to 11AU, i.e. 1AU more than 'CE3079 Professional Internship' (10AU) and total AU for BEng (CE).

2. HW0188 Engineering Communication I is fulfilled by:
- AB0601 Communication Management Fundamentals (2AU)
3. HW0288 Engineering Communication II & ML0003 by MLCPS are fulfilled by:
- AB0602 Communication Management Strategy (4AU)

**List of courses that contribute towards the**

**BBus (with BA Specialisation) CGPA computation under the  
Business and BEng (CE) Double Degree Programme (BCE)**

Applicable to Students Admitted from AY18/19 onwards

	<b>BBus (with BA Specialisation)</b>		<b>AU Load</b>
Discipline Requirements	Core	AD1101 Financial Accounting	4
		AD2101 Management Accounting	4
		AB1201 Financial Management	3
		AB1202 Statistical and Quantitative Methods	3
		HE5091 Principles of Economics	3
		AB1501 Marketing	3
		AB1601 Organization Behaviour and Design	3
		AB3601 Strategic Management	4
		<b>AB1401 Information Technology</b> <i>(fulfilled by CE1003 Introduction to Computational Thinking)</i>	3
		<b>BL9301 Law of Commercial Transactions or } BE3201 Entrepreneurial Finance or } BE2501 International Business Environment }</b>	4
		<b>BE1401 Business Operations &amp; Processes } BE2601 Principles of Management }</b>	4
		<b>(jointly fulfilled by:</b>	
		- <b>CE1013 Physics for Computing</b>	
		- <b>2 AUs</b>	
		- <b>CE2006 Software Engineering – 3 AUs</b>	
		- <b>CE4079 Final Year Project – 8 AUs)</b>	
		*The CE replacement courses add up to 1 AU more than the BBus (with BA Specialisation) core courses requirements.	(42)+1*
	Career Foundations	AB1001 Career Foundations	1
		AB1002 Career Readiness	1
		AB1003 Professional Attachment (Special Semester)	5
			(7)
	Major PE	BC2402 Designing & Developing Databases	4
		BC2406 Analytics I: Visual and Predictive Analytics	4
		BC2407 Analytics II: Advanced Predictive Analytics	4
		BCxxxx Business/CS Integration 1	4
		BCxxxx Business/CS Integration 2	4
		BCxxxx Business/CS Integration 3	4
			(24)



General Education Requirements (GER)	Core	AB0601 Communication Management Fundamentals AB0602 Communication Management Strategy AB1301 Business Law GC0001 Sustainability: Seeing Through The Haze HY0001 Ethics & Moral Reasoning ET0001 Enterprise & Innovation CE1015 Introduction to Data Science and Artificial Intelligence	2 4 3 1 1 1 3  (15)
	PE	<b>EG0001 Engineers &amp; Society</b> (LA) <b>CE3004 Multidisciplinary Design Project</b> (BM) Science & Technology (STS)  ^The CE replacement course is 1 AU more than GER-PE(BM)	3 3 + 1^ 3  (9) + 1^
	UE	Unrestricted Electives  Unrestricted Electives <b>(Choose best 9 AUs from all CE/CZ1xxx, CE/CZ2xxx, CE/CZ3xxx except CE/CZ1003, CE/CZ1013, CE/CZ1005, CE/CZ2006 and CE4079)</b>	3  9  (12)
<b>Grand Total</b>			<b>109 + 2**</b>

\*\*The CE replacement courses add up to 2 AUs more than the BBus (with BA Specialisation) requirements.