

## List of courses that contribute towards the

## BEng (Computer Science) CGPA computation under the Business and BEng (CS) Double Degree Programme (BCG)

Applicable to Students Admitted from AY18/19 onwards

		AU Load	
Discipline Requirements	Core	MH1812 Discrete Mathematics CZ1011 Engineering Mathematics I CZ1012 Engineering Mathematics II CZ1003 Introduction to Computational Thinking CZ1005 Digital Logic CZ1006 Computer Organisation and Architecture CZ1007 Data Structures CZ1013 Physics for Computing CZ2001 Algorithms CZ2002 Object Oriented Design and Programming CZ2003 Computer Graphics and Visualisation CZ2004 Human Computer Interaction CZ2005 Operating Systems CZ2006 Software Engineering CZ2007 Database Systems <sup>1</sup> CZ3001 Advanced Computer Architecture CZ3002 Advanced Software Engineering CZ3003 Software Systems Analysis and Design CZ3004 Multidisciplinary Design Project CZ3005 Artificial Intelligence CZ3007 Compiler Techniques CZ3079 Professional Internship <sup>2</sup> CZ4079 Final Year Project	3 3 3 3 3 3 2 3 3 3 3 3 3 3 3 3 3 3 3 3
	Major PE	CZ4xxx Technical Elective 1 CZ4xxx Technical Elective 2 CZ4xxx Technical Elective 3 BCxxxx Business/IT Integration 1 BCxxxx Business/IT Integration 2 BCxxxx Business/IT Integration 3 (Choose best 3 BCxxxx to be included in the CGPA except BC2402, BC2406 and BC2407)	3 3 3 4 4 4 4 (21)



	Core	EG0001 Engineers & Society GC0001 Sustainability: Seeing Through The Haze HY0001 Ethics & Moral Reasoning ET0001 Enterprise & Innovation HW0188 Engineering Communication I <sup>3</sup> HW0288 Engineering Communication II & ML0003 by MLCPS <sup>4</sup> CZ1015 Introduction to Data Science and Artificial Intelligence	3 1 1 2 4 3 (15)
General Education Requirements (GER)	PE	AB1201 Financial Management (BM) HE5091 Principles of Economics (LA) Science & Technology (STS)	3 3 3 (9)
	UE	Unrestricted Electives Unrestricted Electives (To choose the best 6 AUs from all ABxxxx, ADxxxx, except AB0601, AB0602, AB1301, AB1001, AB1201, AB1002, AB1003. Note BCxxxx are not to be included in the basket of choices)	6 6 (12)
Grand Total			

- <sup>1.</sup> CZ2007 Database Systems is fulfilled by:
  - BC2402 Data Mgt and Business Intelligence (3AU)
- <sup>2.</sup> CZ3079 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 'CZ3079 Professional Internship' (10AU) and total AU for BEng (CS).

- <sup>3.</sup> HW0188 Engineering Communication I is fulfilled by:
  - AB0601 Communication Management Fundamentals (2AU)
- <sup>4.</sup> 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(CS) Double Degree Programme (BCG)

Applicable to Students Admitted from AY18/19 onwards

	BBus (with BA Specialisation)		AU Load
Discipline Requirements	Core	BBus (with BA Specialisation)   AD1101 Financial Accounting   AD2101 Management Accounting   AB1201 Financial Management   AB1202 Statistical and Quantitative Methods   HE5091 Principles of Economics   AB1501 Marketing   AB1601 Organisation Behaviour and Design   AB3601 Strategic Management   AB1401 Information Technology   (fulfilled by CZ1003 Introduction to Computational   Thinking)   BL9301 Law of Commercial Transactions or }   BE3201 Entrepreneurial Finance or }   BE2501 International Business Environment }   BE1401 Business Operations & Processes }   BE2601 Principles of Management }   (jointly fulfilled by:   - CZ1013 Physics for Computing - 2 AUs   - CZ2006 Software Engineering - 3 AUs   - CZ4079 Final Year Project - 8 AUs)   *The CZ replacement courses add up to 1 AU more than the BBus (with BA Specialisation) core courses requirements.	AU Load 4 4 3 3 3 3 4 3 4 3 4 3 4 4 4 4 4 4 4 4 4 4 4 4 4
	Career Foundations	AB1001 Career Foundations AB1002 Career Readiness AB1003 Professional Attachment (Special Semester)	1 1 5 (7)
	Major PE	BC2402 Designing & Developing Databases BC2406 Analytics I: Visual and Predictive Analytics BC2407 Analytics II: Advanced Predictive Analytics BCxxxx Business/CS Integration 1 BCxxxx Business/CS Integration 2 BCxxxx Business/CS Integration 3	4 4 4 4 4 4 (24)



School of Computer Science and Engineering

		AB0601 Communication Management Fundamentals	2
		AB0602 Communication Management Strategy	4
		AB1301 Business Law	3
		GC0001 Sustainability: Seeing Through The Haze	1
	Core	HY0001 Ethics & Moral Reasoning	1
		ET0001 Enterprise & Innovation	1
		CZ1015 Introduction to Data Science and Artificial	3
		Intelligence	(15)
General			(15)
		EG0001 Engineers & Society (LA)	3
Education		CZ3004 Multidisciplinary Design Project (BM)	3 + 1^
Requirements	PE	Science & Technology (STS)	3
(GER)	PE		
		<sup>^</sup> The CZ replacement course is 1 AU more than GER-PE(BM)	(9) + 1^
		Unrestricted Electives	6
		Linear triate of Electricity	C
	UE	Unrestricted Electives (To choose the best 6 AUs from all CE/CZ1xxx, CE/CZ2xxx,	6
		<i>CE/CZ3xxx except CE/CZ1003, CE/CZ1004, CE/CZ1005,</i>	
		CE/CZ2006 and CZ4079)	
		,	(12)
			、 <i>,</i>
Grand Total			

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