

**Curriculum Structure for
BEng (CS) and BBus (IT) Double Degree Programme**
Applicable to students matriculated in 2014 or later

This double degree programme can be accelerated and completed in 4 years. Students can only do Professional Attachment under Nanyang Business School. There is no Industrial Attachment option. There is no exemption granted to Polytechnic students.

AU requirements

Type	Total No. of AUs
Depth (CS Core)	80
Depth (Bus Core)	58
Breadth	18
Unrestricted electives	6
Grand Total	162

Accelerated 4-year Curriculum Structure for BEng(CS) and BBus(IT) Double Degree Programme

With overloading, students can accelerate and complete the programme in 4 years.

Course Code and Title	Type (i.e. Core/ Core elective/ GER core/ GER elective/ Unrestricted elective)	No of Hours Per Week				AU	Pre-requisite / Remarks
		Lec	Tut	Lab	Total		
YEAR 1 SEMESTER 1							
MH1812 Discrete Mathematics	Core (CS)	2	1	1 ⁺	4	3	-
CZ1002 Introduction to Computing Systems	Core (CS)	2	1	1	4	3	-
CZ1003 Introduction to Computational Thinking	Core (CS)	2	1	1	4	3	-
CZ1004 Great Ideas in Computing	Core (CS)	1	1	-	2	2	-
CZ0001 Engineers & Society	GER Core	2	1	-	3	3	
AD1101 Financial Accounting	Core (Bus)	3	1	-	4	4	-
AB1301 Business Law	Core (Bus)	2	1	-	3	3	-
GC0001 Sustainability	GER core					1	on-line course
TOTAL		14	7	2+1⁺	24	22	

Course Code and Title	Type (i.e. Core/ Core elective/ GER core/ GER elective/ Unrestricted elective)	No of Hours Per Week				AU	Pre-requisite / Remarks
		Lec	Tut	Lab	Total		
YEAR 1 SEMESTER 2							
CZ1005 Digital Logic	Core (CS)	2	1	1	4	3	
CZ1006 Computer Organisation and Architecture	Core (CS)	2	1	1	4	3	CZ1005 (can be taken concurrently)
CZ1007 Data Structures	Core (CS)	2	1	1	4	3	CZ1003
CZ1008 Engineering Mathematics	Core (CS)	2	1	1 ⁺	4	3	-
AB1202 Statistical and Quantitative Methods	Core (Bus)	2	1	-	3	3	-
AB1601 Organisation Behaviour and Design	Core (Bus)	2	1	-	3	3	-
AB0601 Communication Management Fundamentals	GER core	2	-	-	2	2	-
TOTAL		15	6	3+1⁺	25	21	
YEAR 2 SEMESTER 1							
CZ2001 Algorithms	Core (CS)	2	1	-	3	3	CZ1001, CZ1007
CZ2002 Object Oriented Design and Programming	Core (CS)	2	1	1	4	3	CZ1007
CZ2003 Computer Graphics and Visualisation	Core (CS)	2	1	1	4	3	CZ1001
AD2101 Management Accounting	Core (Bus)	3	1	-	4	4	AB1101
BC2402 Data Mgt and Business Intelligence	Core (Bus)	3	1	-	4	4	
AB0901 Principles of Economics	Core (Bus)	2	1	-	3	3	-
Ethics & Academic Integrity	GER core					1	on-line course
TOTAL		13	6	2	21	20	

Course Code and Title	Type (i.e. Core/ Core elective/ GER core/ GER elective/ Unrestricted elective)	No of Hours Per Week				AU	Pre-requisite / Remarks
		Lec	Tut	Lab	Total		
YEAR 2 SEMESTER 2							
CZ2004 Human Computer Interaction	Core (CS)	2	1	1	4	3	-
CZ2005 Operating Systems	Core (CS)	2	1	1	4	3	CZ1007
CZ2006 Software Engineering	Core (CS)	2	1	1	4	3	CZ2002 (can be taken concurrently)
AB1201 Financial Management	Core (Bus)	2	1	-	3	3	-
BCxxxx Business/IT Integration	Core elective (Bus-IT)	3	1	-	4	4	
Unrestricted elective	Unrestricted elective	2	1	-	3	3	
AB1000 Career Foundations I	Core (Bus)	1	-	-	1	1	
TOTAL		14	6	3	23	20	
YEAR 3 SEMESTER 1							
CZ3001 Advanced Computer Architecture	Core (CS)	2	1	1 ⁺	4	3	CZ1006
CZ3002 Advanced Software Engineering	Core (CS)	2	1	1	4	3	CZ2006
CZ3003 Software Systems Analysis and Design	Core (CS)	2	1	1	4	3	CZ2006 (can be taken concurrently)
CZ8003 HRM & Entrepreneurship	GER elective (BM)	2	1	-	3	3	Compulsory for SCE Students
AB1501 Marketing	Core (Bus)	2	1	-	3	3	-
Unrestricted elective	Unrestricted elective	2	1	-	3	3	
AB2000 Career Foundations II	Core (Bus)	1	-	-	1	1	-
Enterprise & Innovation	GER core					1	on-line course
TOTAL		13	6	2+1⁺	22	20	

Course Code and Title	Type (i.e. Core/ Core elective/ GER core/ GER elective/ Unrestricted elective)	No of Hours Per Week				AU	Pre-requisite / Remarks
		Lec	Tut	Lab	Total		
YEAR 3 SEMESTER 2							
CZ3004 Multidisciplinary Design Project	Core (CS)	1	-	3	4	4	Year 3 standing
CZ3005 Artificial Intelligence	Core (CS)	2	1	1	4	3	CZ1003, CZ2001
AB0602 Communication Management Strategy	GER (Core)	3	1	-	4	4	AB0601
BCxxxx Business/IT Integration	Core elective (Bus-IT)	3	1	-	4	4	
AB2001 Professional Attachment (Special Semester)	Core (Bus)	-	-	-	-	2	AB2000
TOTAL		9	3	4	16	17	
YEAR 4 SEMESTER 1							
CZ4079 Final Year Project	Core (CS)	-	-	-	-	-	
CZ3006 Net Centric Computing	Core (CS)	2	1	1	4	3	CZ1006 and CZ1007 (both can be taken concurrently)
CZ4xxx Technical Elective 1	Core elective	2	1	-	3	3	
CZ4xxx Technical Elective 2	Core elective	2	1	-	3	3	
BCxxxx Business/IT Integration	Core elective (Bus-IT)	3	1	-	4	4	
BCxxxx Business/IT Integration	Core elective (Bus-IT)	3	1	-	4	4	
Liberal Arts Course	GER elective	2	1	-	3	3	
TOTAL		14	6	1	21	20	

Course Code and Title	Type (i.e. Core/ Core elective/ GER core/ GER elective/ Unrestricted elective)	No of Hours Per Week				AU	Pre-requisite / Remarks
		Lec	Tut	Lab	Total		
YEAR 4 SEMESTER 2							
CZ4079 Final Year Project	Core (CS)	-	-	-	-	8	
CZ3007 Compiler Techniques	Core (CS)	2	1	1	4	3	CZ2001, CZ2006
CZ4xxx Technical Elective 3	Core elective	2	1	-	3	3	
BCxxxx Business/IT Integration	Core elective (Bus-IT)	3	1	-	4	4	
AB3601 Strategic Management	Core (Bus)	3	1	-	4	4	AB1501, AB1601
TOTAL		10	4	1	15	22	
GRAND TOTAL (Year 1 to 4)						162	

BCxxxx Business/IT Integration Courses (Students to choose any 5 courses) Pre-requisite: CZ1007 Data Structures
BE1401 Business Operations and Processes
BC2401 Analysis and Management of IT Projects*
BC2405 Decision Tools for Managers
BC3401 Enterprise Computing
BC3402 Information Systems in Financial Services
BC3403 Designing Strategic Networked Enterprises

**with effect from AY13-14 Semester 1*