



Curriculum for 4-year SCSE Part-time B.Eng Programme

STUDY YEAR	MAJOR REQUIREMENTS		GENERAL EDUCATION REQUIREMENTS (GER)				TOTAL	
	CORE (C)	MAJOR PRESCRIBED ELECTIVE (PE)	GER-CORE (GC)	GER-PRESCRIBED ELECTIVE (GER-PE)				UNRESTRICTED ELECTIVE (UE)
				BUSINESS & MANAGEMENT (BM)	LIBERAL ARTS (LA)	SCIENCE, TECHNOLOGY & SOCIETY (STS)		
1	21		3				0	
2	18		6				0	
3	21	3	1				0	
4	8	9	3				0	
Total	68	12	13	0	0	0	93*	

Course Code and Title	Type (i.e. Core/ Core elective/ GER core)	AUs	Pre-requisites / Remarks
Year 1 Sem 1			
CZ1011 Engineering Maths I	Core	3	
CZ1003 Introduction to Computational Thinking	Core	3	
CZ1005 Digital Logic	Core	3	
GC0001 Sustainability: Seeing Through The Haze	GER core	1	Online course
HW0001 English Proficiency	Core	0	
TOTAL		10	
Year 1 Sem 2			
CZ1006 Computer Organisation and Architecture	Core	3	CZ1005 (can be taken concurrently)
CZ1007 Data Structures	Core	3	CZ1003
CZ1012 Engineering Maths II	Core	3	CZ1011 (can be taken concurrently)
HW0188 Engineering Communication I	GER core	2	
TOTAL		11	
Year 1 Special Semester			
MH1812 Discrete Mathematics	Core	3	
TOTAL		3	
Year 2 Sem 1			
CZ2001 Algorithms	Core	3	MH1812, CZ1007, CZ1012



CZ2002 Object Oriented Design & Programming	Core	3	CZ1007
CZ2004 Human Computer Interaction	Core	3	
CZ2003 Computer Graphics & Visualization	Core	3	CZ1011
TOTAL		12	
Year 2 Sem 2			
CZ2006 Software Engineering	Core	3	CZ2002 (can be taken concurrently)
CZ3003 Software Systems Analysis and Design	Core	3	CZ2006 (can be taken concurrently)
CZ0001 Engineers and Society	GER core	3	
CZ1015 Introduction to Data Science and Artificial Intelligence	GER core	3	CZ1003
TOTAL		12	
Year 3 Sem 1			
CZ2005 Operating Systems	Core	3	CZ1006, CZ1007
CZ2007 Introduction to Databases	Core	3	CZ1007, CZ2001 (can be taken concurrently)
CZ3002 Advanced Software Engineering	Core	3	CZ2006
HY0001 Ethics and Moral Reasoning	GER core	1	Online course
TOTAL		10	
Year 3 Sem 2			
CZ4079 Final Year Project	Core	1	
CZ3006 Net Centric Computing	Core	3	CZ1006, CZ2002
CZ3005 Artificial Intelligence	Core	3	CZ1003, CZ2001
CZ4xxx Technical Elective 1	Core elective	3	
TOTAL		10	
Year 3 Special Semester			
CZ4079 Final Year Project	Core	5	



TOTAL		5	
Year 4 Sem 1			
CZ4079 Final Year Project	Core	1	
CZ3001 Advanced Computer Architecture	Core	3	CZ1006
CZ4xxx Technical Elective 2	Core elective	3	
CZ4xxx Technical Elective 3	Core elective	3	
ET0001 Enterprise And Innovation	GER core	1	Online course
TOTAL		11	
Year 4 Sem 2			
CZ4079 Final Year Project	Core	1	
CZ3007 Compiler Techniques	Core	3	CZ2001, CZ2006
CZ4xxx Technical Elective 4	Core elective	3	
HW0288 Engineering Communication II	GER core	2	HW0288
TOTAL		9	
TOTAL AU REQUIREMENTS		93*	