## B.Sc. Business Software Development Programme Specification

1. 0	Qualification	2. Programme Title	3.	4. Programme Type							
В	B.Sc (Hons) Business Software G601/G602 Full t Development		Full time/Part-time								
	5. Main Purposes and Distinctive Features of the Programme										
1	1 To develop in the student an in depth understanding of the role, design, development and operation of computer-based information systems in the context of the information requirements of business										
2	2 To provide students with the knowledge and skills required to contribute to the analysis, design, testing and development of software systems in a systematic and professional manner										
3 4	<ul> <li>To develop a professional approach to information systems engineering</li> <li>To expose students to current and future issues affecting the development of</li> </ul>										
5	To develop the	e students' ability to ado	opt new m	nethods and t	echnology and to keep						
6 7	To give a broad To develop a particularly the skills that are re	d education in computing nd improve the stude investigative, formal w	and its ap ents' inter rriting, form	pplications in l personal and mal presentat	ousiness and industry. I communication skills ion and group working						
8	To enable stuc	lents to apply a critical a	and analyt	ical approach	to problem solving and						
9	To develop a particularly the skills that are re	nd improve the stude investigative, formal we equired for the workplace	,. ents' inter vriting, forr e.	personal and mal presentat	l communication skills ion and group working						
Distin	<b>Distinctive Features</b> Professional accreditation from The British Computer Society (BSC) as meeting the academic requirements for full membership of BCS. Professional accreditation is an attractive feature to many employers since it validates the academic programme as providing a qualification recognised by the professional body. Note: In this case professional accreditation only applies to on campus students. Not students studying via off campus centres.										
6. Wh To gain th and profe approved	6. What a graduate should know and be able to do on completion of the programme (objectives and learning outcomes) To gain the qualification the learner will have demonstrated: i) subject knowledge and understanding ii) cognitive skills iii) discipline-related practical and professional skills and iv) other general skills and capabilities (e.g. key/transferable/common) as specified in the learning objectives/outcomes for approved modules in the programme. Further details of module outcomes can be found in the programme document.										
<i>Knowle</i> 1	Knowledge and understanding in the context of the subject(s)Subject-specific practical/professional skills1Understanding of the stages of the systems1plan, monitor, control, implementlife cycledocument a small software system										
2	Knowledge of the can be used at t cycle	e tools and techniques that he different stages of the li	ife 2	defined stand investigate ar defined svste	ards id document a well- m to a standard using						
3	Understanding of data modelling	of the systems, program an design techniques that	nd 3	appropriate to produce a rec	ols. Juirements						
	development a	nd corresponding skills	4	evaluate, sele	ect and justify the						

4 5 6 <i>Cognitiv</i> 1	Structured design skills in a range of omputer applications Inderstand the gathering, processing, torage and management of data The role in organisations and the basic echnology of computer networks	5 6 7 Other s	hardware and software requirements needed to meet a well-defined set of requirements design, implement and test a database using an industry-standard database package. use software development tools, operating systems and the internet design and implement user interactions and interfaces
	reaching a solution	or other	contexts
2	ability to apply concepts	I	writing and orally
3 4	capability to transfer skills/knowledge to	2	numerical skills appropriate to a
F	new areas	3	work competently as part of a team
5	services	4	ability to investigate and design
6	ability to use a range of thought processes		problems
1	ability to critically evaluate the work of others and own contribution to a project	5	research a new area in Computing as a basis for a project

carry out a substantial piece of 6 independent work

7. Qualities, Skills & Capabilities Profile The educational and training goals of the programme seek to develop and demonstrate the following qualities, skills, capabilities and values in its graduates

A Cognitive	B Practical	C Personal & Social	D Other
Problem Solving	Analysis and Design	Team-working	
	Skills		
Application of Concepts	Programming Skills	Communication	
Powers of critical	QA and Testing Skills	Time management	
evaluation			
Transfer skills/knowledge	Database Skills	Working with 'users'	
Design new products	Technical	Career development and	
	documentation	planning	
Flexibility of thought	Evaluation of hardware	Professional	
	and software	Development	
Research skills	User interaction design		
Clarification of Objectives	Formal Presentation		
Synthesis of differing	Use of software tools		
methods and approaches	and operating systems		
to problem solving			

### 8. Subjects Studied, Levels, Credits & Qualifications

(Duration and structure of programme/modes of study/credit volume of study units) 3 years full-time (4.5 years part-time at two modules per semester) for the award of Degree 6 level 1, 6 level 2 and 6 level 3 modules worth 20 credits Courses organised on a two-semester year

	Core Modules	Dissertation/project	Optional Modules
		Bache	lor Honours Degree 360 Credits
Part 2 Level H3	CST3007 Professional Issues in Computing	CST3100 Computing Project 40 credit individual project (for single subject pathway) involving self- managed integration, extension and practical application of knowledge	CST3003 Advanced Database systems CST3005 Client Server Solutions LCT3009 E-Commerce CST3104 Computer Security CST3006 Object Oriented Methods 2 CST3008 Software Engineering CST3106 User Interface Design CST3009 Web & Systems Based Programming CST3108 Advanced Systems Design
			HE Diploma – 240 credits
Part 2 Level H2	CST2502 Data Structures & Algorithms CST2503 Database Theory & practice CST2508 Object Oriented Methods 1 CST2509 Networks & Communications CST2511 Systems Analysis		CST2514 Building Office Applications CST2501 Visual Programming 2 LCT2506 Internet 1 CST2505 Human Computer Interaction
	· · · · · ·		HE Certificate – 120 credits
Part 1 Level H1	LCT1023 Core Skills CST1010 Information Systems LCT1019 Networking Basics CST1205 Introduction to Programming CST1206 Programming and Design		CST1203 Computerised Financial Systems LCT1000 Internet 1 CST1202 Visual Programming 1

9. Learning, Teaching and Assessment	10. Other Information
Strategy	
Learning and Teaching Methods	Date programme first to be offered
A combination of lectures, supervised and unsupervised	1999
practical work, directed study, Case Study weeks, group-	
working and a project	Admissions Criteria
	The standard minimum requirements for the pathway are
Assessment Methods	as follows:
Assessments are linked to the student outcomes for each	
module.	2 A Level passes + 3 subjects at GCSE with grade C or
Types of assessment include:	above including English Language and Mathematics
Examinations Coursework reports	OR
Coursework to produce a program/ model a system	3 passes at Scottish Certificate 'Higher' grade +
Project to produce and document a piece of software	2 passes at standard grade

			OR
Assessment Classification System			BTEC National Certificate/Diploma
Description	Mark Rango	Dearee	OR
Class	main inalige	Degree	
Work of Expontional Quality	70 100		
Work of Very Cood Quality	70 - 100 60 60	1	
Work of Cood Quality	60-69 50 50		
Work of Good Quality	50-59	11.11	OR Dess in Assess to Likeban Education source
Work of Satisfactory Quality	40-49	III 5 - 11	Pass in Access to Higher Education course
Borderline fail	35-40	Fail	
Clear Fail	0-34	Fail	Irish Leaving Certificate
The definitions of the above criteria a	ire:		Other equivalent qualifications
Work of Exceptional Quality			
Virtually all of the relevant information	n/skills accurate	ly	Applicants who have successfully completed an HND/C in
deployed. Excellent and exceptional	grasp of theoret	ical,	a Computing subject and who have 3 Merits at Level 2 will
conceptual, analytical and practical e	lements. Very e	ffective	be accepted onto the degree. We will grant an exemption
integration of theory, practice and inf	ormation in relat	tion to the	from all level one modules and we will grant exemptions
objectives of the assessment. Substa	antial evidence c	of	from any level 2 modules for which the applicant has a
originality and creativity as appropria	te to the subject		merit in an equivalent level 2 HND/C module. Students
			who have the requisite merit profile from Bolton Institute's
Work of Very Good Quality			current HND in Computing may be able to acquire a
Most of the relevant information/skills	accurately dep	loyed.	maximum of six exemptions and will therefore need a
Good grasp of theoretical, conceptua	I, analytical, pra	octical	minimum of two semesters to complete their degree.
elements. Effective integration of the	ory, practice and	b	
information in relation to the objective	es of the assess	ment.	Non Standard Entry
Significant evidence of originality and	I creativity as ap	propriate	Applicants who do not have any of the above qualifications
to the subject.			are regarded as non-standard applicants. To be
-			considered for entry, non-standard applicants must
Work of Good Quality			normally be at least 21 years of age on 1st September of
Some of the relevant information/skil	Is accurately de	ployed.	the year in which their programme begins.
Adequate grasp of theoretical, conce	ptual, analytical	and	
practical elements. Fair integration of	theory, practice	e and	Non-standard applicants will normally attend an informal
information in relation to the objective	es of the assess	ment.	interview with the course leader, in order to assess their
Some evidence of originality and creater	ativity as approp	oriate to	level of academic competence as well as experience and
the subject.	, , ,		motivation.
,			
Work of Satisfactory Quality			
Some omissions in the deployment of	f information/ski	ills. Some	
grasp of theoretical, conceptual, anal	vtical and practi	ical	Indicators of Quality and Standards
elements. Limited integration of theorem	v. practice and		Validated by panel with two external subject specialists
information in relation to the objective	es of the assess	ment.	External verifier
I imited evidence of originality and cru	eativity as appro	poriate to	Internal yearly quality monitoring cycle
the subject.			
Borderline Fail			
Deficiencies or omissions in informat	ion skills theor	etical	
conceptual practical elements. Limit	ted integration o	f these in	
relation to the assessed work's object	tives. Some rela	vant	
content and marginal evidence of ski	lle knowledge o	r	
croativity which could in the light of c	worall porforma	nco	
constitute the basis for a pass grade	in the examiner	e'	
iudaement		3	
Judgement			
Clear Fail			
Little evidence of the information aki	lls theoretical		
concentual analytical creative or pre-	actical elemente	relevant	
to the assessment Mainly irrelevent	and/or incorrect	i eleval il	
information provided Scont avidence	anu/ur incorrect	ng of the	
requirements of the accessment		ng or the	
requirements of the assessment.			

#### MAPPING OF LEARNING OUTCOMES TO MODULES

	К 1	K 2	К 3	S 1	S 2	S 3	C 1	C 2	C 3	C 4	0 1	0 2	0 3	0 4
Level 1 m	odul	es												
LCT1023			х				х				х	х	х	
CST1203					X	Х	Х		Х	Х	Х			x
CST1010	x		х	X										x
LCT1000			Х				X		Х		Х		Х	
LCT1019			Х				х			х		Х		x
CST1205	x	x			X	x		x		x	x			
CST1206	x	x			X	X	X		Х	X		Х		
CST1202		x		X		x			x	x				x
Level 2 Mo	odul	es	-						-			-		
LCT2506		x	x		X			х	x			x		x
CST2514	x			X		x			Х		x		x	
CST2503		x		Х	x			x		х	x			x
CST2505	x		x			x	x		x	x			x	
CST2511	x			X	X		x	х		x	х		х	
CST2501		x		X		x			X	x	x			x
Level 3 Mo	odul	es												
CST3003		x		x	x		x	x		x	x			
CST3005	х				x	х				х		х	х	
LCT3009		x	х			x	x		х			х		x
CST3007	X		X				x			x	X		X	
CST3108	x			X	X		x	X		x	X		X	
CST3107		X	x			X			x		x	x		
CST3100	x	x			x	x	x		x	x	x		x	x

## **BSc Business Software Development**

Kn, Sn, Cn, On are Knowledge, Subject-specific, Cognitive and Other learning outcomes respectively. Refer to the Programme Specification for a definition of each learning outcome.

Core modules are shown in bold. An X at a row/column intersection indicates that the specified module supports the specified learning outcome.

# Mapping of Assessment Methods to Modules BSc Business Software Development

	CW %	EX %	ICA %	PRA %	PRE %	IS %			
LEVEL 1 MODULES									
LCT1023	100								
CST1203	50+50								
CST1010	50+50								
LCT1000	70	30							
LCT1019	30	50		20					
CST1205			100						
CST1206			100						
CST1202	50		50						
LEVEL 2 N	ODULES	1	-	1	1	1			
LCT2506	30	30	40						
CST2514	50+50								
CST2503	50	50							
CST2505	50	50							
CST2511	50	50							
CST2501	50+50								
LEVEL 3 N	IODULES	I	1	1	1	1			
CST3003	50	50							
CST3005	25	50		25					
LCT3009	50	50							
CST3007	50				50				
CST3108	50	50							
CST3107	50	50							
CST3100			10		45	20+25			

## Assessment Type Codes

- CW Coursework
- EX Examination
- ICA In-class assessment
- PRA Practical
- PRE Presentation
- IS Independent study