

1. Qualification HND/C	2. Programme Title Computing	3. UCAS Code 104G/	4. Programme Type EdExcel
<p>5. Main Purposes and Distinctive Features of the Programme</p> <p>To provide students with the knowledge and skills required to contribute to the analysis, design, testing and development of software systems .</p> <p>To develop the students' ability to adopt new methods and technology and to keep abreast of developments in hardware and software.</p> <p>To give a sound education in computing and its application, with an emphasis on implementation.</p> <p>To develop and improve the students' interpersonal and communication skills particularly the investigative, formal writing, formal presentation and group working skills that are required for the workplace.</p> <p>Distinctive Features Progression to graduate qualification in Computing. HND available in part-time mode for students who can fit into HNC and degree provision.</p>			

6. What a graduate should know and be able to do on completion of the programme			
<u>Knowledge and understanding in the context of the subject(s)</u>		<u>Subject-specific practical/professional skills</u>	
1	Understanding the stages of the systems development life cycle and their implications	1	Competence in the correct structuring of data to be stored in a relational database
2	Knowledge of a programming language which utilises the Object Oriented paradigm.	2	Perform systems analysis of business problems and design of software for the commercial environment
3	Awareness of current technologies for supporting user interaction over the WWW	3	Design software to implement standard data structures and associated methods
<u>Cognitive skills in the context of the subject(s)</u>		<u>Other skills (e.g. key/transferable) developed in subject or other contexts</u>	
1	Application of a structured methodology	1	Capacity to investigate problems
2	Design software compliant with HCI	2	Communicate effectively orally and in writing
3	Synthesis of database structure, problem analysis and technical programming knowledge	3	Able to work as part of a team Numerical and quantitative skills Make use of a range of information sources Select and utilise appropriate methods for presenting information Use a range of thought processes

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 Skills	Team-working	
Application of Concepts	Programming Skills	Communication	
Powers of evaluation	QA and Testing Skills	Time management	
Transfer skills/knowledge	Database Skills		
Design new products	Technical documentation		
Flexibility of thought	Evaluation of hardware and software		
	Use of software tools and operating systems		

8a. Duration and Structure of Programme/Modes of Study/Credit Volume of Study Units

HND - 2 Years full-time organised on a 2 semesters per year basis and comprising 240 credits.

Level Modules	2	Core Modules CST2503 Database Theory and Practice CST2511 Systems Analysis CST2502 Data Structures and Algorithms	<u>(Options normally 20 credits each)</u>	Project (20 credits) CST2511 Individual project with self-managed integration, extension and practical application of knowledge (compulsory)
Level Modules	1	LCT1019 Networking Basics LCT1023 Core Skills CST1010 Information Systems LCT1000 Internet 1 CST1205 Introduction to Programming CST1206 Programming and Design CST1202 Visual Programming 1 CST1203 Computerised Financial Systems		

8b. Duration and Structure of Programme/Modes of Study/Credit Volume of Study Units
HNC - 2 Years part-time organised on a 2 semesters per year basis and comprising 160 credits.

Level 2 Modules	<u>Core Modules</u> CST2503 Database Theory and Practice	<u>(Options normally 20 credits each)</u> CST2502 Data Structures and Algorithms or CST2511 Systems Analysis	<u>Project (20 credits)</u> 20 credit individual project with self-managed integration, extension and practical application of knowledge (compulsory)
Level 1 Modules	LCT1023 Core Skills LCT1019 Networking Basics CST1010 Information Systems CST1205 Introduction to Programming CST1206 Programming and Design		

<p>9. Learning, Teaching and Assessment Strategy</p> <p><u>Learning and Teaching Methods</u> A combination of lectures, supervised and unsupervised practical work, directed study, case study, group-working and a project</p> <p><u>Assessment Methods</u> Assessments are linked to the learning outcomes for each module. Types of assessment include: Examinations Coursework reports Coursework to produce a program/ model a system Project to produce and document a piece of software</p> <p><u>Assessment Classification System</u> A Pass is awarded for the achievement of all outcomes against the specified criteria.</p>	<p>10. Other Information</p> <p><u>Date programme first offered</u> September 2003</p> <p><u>Admissions Criteria</u> Five GCSE passes (Grade C or better) including English, Mathematics and a Science subject and 60 UCAS tariff points including one A2 level pass.</p> <p>Acceptable alternatives would be :- Edexcel/BTEC National Diploma/Certificate (pass), Irish Leaving Certificate, International Baccalaureate, Scottish Highers, AGNVQ or completion of a suitable kitemarked access course.</p> <p><i>Non Standard Entry</i> Relevant work/life experience and interview Other cases dealt with by admissions tutor on an individual basis</p>
--	---

Achievement at Pass level will demonstrate:
knowledge and comprehension of relevant practice, theories or techniques
the ability to solve problems using given methods
coherence in the quality of outcomes

A Merit level will demonstrate:
the application of appropriate knowledge, and understanding of relevant practices, theories or techniques
the identification of problems and the use of appropriate methods to solve them
clarity and coherence in the quality of outcomes

A Distinction level will demonstrate
the application of knowledge and understanding of a range of relevant practices, theories or techniques
the identification of problems, their causes and the selection of appropriate methods to solve them
clarity, coherence and originality in the quality of outcomes

Honours Classification Bands

N/A

Indicators of Quality and Standards

Validated by panel with two external subject specialists

External verifier

Internal yearly quality monitoring cycle

MAPPING OF LEARNING OUTCOMES TO MODULES

HND/C Computing

	K 1	K 2	K 3	S 1	S 2	S 3	C 1	C 2	C 3	O 1	O 2	O 3
Level 1 Modules												
LCT1023			X							X	X	
CST1203					X	X		X	X	X		X
CST1010	X		X	X								X
LCT1000			X					X		X	X	
LCT1019			X					X				X
CST1205	X	X			X	X	X		X	X		
CST1206	X	X			X	X		X	X			
CST1202		X		X		X		X	X			X
Level 2 Modules												
CST2503		X		X	X		X		X	X		X
CST2511	X			X	X		X		X	X	X	
CST2502	X	X		X		X	X		X	X		X
CST2515	X	X		X	X		X		X	X	X	X

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.

An X at a row/column intersection indicates that the specified module supports the specified learning outcome.

Mapping of Assessment Methods to Modules HND/C Computing

	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 MODULES						
CST2503	50	50				
CST2511	50	50				
CST2502	40+60					
CST2515	20				50	30

Assessment Type Codes

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