



Institiúid Teicneolaíochta Chorcaí
Cork Institute of Technology

APPROVED

Awards
Higher Certificate in Sc

Programme Code:	CR_KCOME_6
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Mode of Delivery:	Full Time, Part Time, ACCS
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No. of Semesters:	4
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NFQ Level:	6
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Embedded Award:	No
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Programme Credits:	5
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programmeReviewDate:	March 2020
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Department:	COMPUTER SCIENCE
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Programme Outcomes

Upon successful completion of this programme the graduate will be able to demonstrate... :

PO1	Knowledge - Breadth
	(a) A knowledge of the theory, concepts and methods pertaining to the development, support and maintenance of computer systems and applications, to agreed standards.
PO2	Knowledge - Kind
	(a) An ability to apply knowledge of high level computer programming, computer architecture, networking and database systems in solving well defined problems in computer systems development and maintenance
PO3	Skill - Range
	(a) The ability to use standard tools and techniques in the development of new systems and in the deployment and support of existing systems.
PO4	Skill - Selectivity
	(a) The ability to apply suitable trouble shooting and problem solving skill to a range of computer related problems.
PO5	Competence - Context
	(a) The ability to develop a system to a predefined design and to maintain and support systems in a range of business settings.
PO6	Competence - Role
	(a) The ability to work ethically and professionally as an individual or within a team.
PO7	Competence - Learning to Learn
	(a) The ability to exploit available resources for self learning, to learn from experience and to identify his/her need for further skill or educational development
PO8	Competence - Insight
	(a) The ability to describe the wider social, political and business context within which IT professional operates and the need for high ethical and professional standards in ones work.

Semester Schedules

Stage 1 / Semester 1

Mandatory	
Module Code	Module Title
SOFT6018	Programming Fundamentals
SOFT6007	Web Development Fundamentals
COMH6002	Computer Architecture
COMP6035	Computer Security Principles
MATH6055	Maths for Computer Science
CMOD6001	Creativity Innovation&Teamwork

Stage 1 / Semester 2

Mandatory	
Module Code	Module Title
SOFT6017	Modular Programming
COMP6041	Introduction to Databases
COMP6042	Operating Systems in Practice
COMP6027	Networking Fundamentals
MATH6004	Discrete Maths
COMP6043	Physical Computing

Stage 2 / Semester 1

Mandatory	
Module Code	Module Title
SOFT7004	Object Oriented Principles
SOFT7007	Requirements Engineering
COMP7035	Linear Data Struct. & Alg.
SOFT7022	Database Design
SOFT7008	Server-side Web Development
Elective	
Module Code	Module Title
COMP7036	Linux Administration
SOFT7006	Operating Systems
FREE6001	Free Choice Module

Stage 2 / Semester 2

Mandatory	
Module Code	Module Title
COMP7013	Object Oriented Programming
COMP7037	NoSQL Data Architectures
SOFT7019	C Programming
SOFT7005	OO Analysis and Design
COMP7044	Systems Scripting
STAT7007	Probability and Statistics