

APPROVED



Institiúid Teicneolaíochta Chorcaí
Cork Institute of Technology

Awards
Certificate

Programme Code:	CR_ECBPO_6
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Mode of Delivery:	Distance Learning, ACCS, Open
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No. of Semesters:	2
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NFQ Level:	6
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Embedded Award:	No
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Programme Credits:	60
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programmeReviewDate:	August 2019
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Department:	PROCESS, ENERGY & TRANSPORT ENGINEERING
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Programme Outcomes

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

PO1	Knowledge - Breadth	
	(a)	demonstrate a knowledge of the science, ICT, design and development tools underpinning the the Chemical & Biopharmaceutical Industry, with particular reference to physical and organic chemistry, molecular biology, simulation software, process safety and economics.
PO2	Knowledge - Kind	
	(a)	link relevant theories to the development of a process design, while remaining conscious of the limitations of the design process and cognisant of health safety and environmental issues.
PO3	Skill - Range	
	(a)	analyse data pertaining to a chemical engineering related phenomena utilising empirical formulae, correlations and/or 'first principle' analysis to manipulate data in order to prove or disprove a hypothesis.
PO4	Skill - Selectivity	
	(a)	devise an experimental plan to achieve specified laboratory objectives, implement an experimental plan efficiently, evaluate data collected and/or calculated in light of the relevant theory, present theory, data and evaluation in a report that conforms with report writing standards at 'peer review' level.
PO5	Competence - Context	
	(a)	n/a
PO6	Competence - Role	
	(a)	n/a
PO7	Competence - Learning to Learn	
	(a)	n/a
PO8	Competence - Insight	
	(a)	n/a

Semester Schedules

Stage 1 / Semester 1

Mandatory	
Module Code	Module Title
CHEP6002	Process Principles & Design 1
MANU6011	Calibration Science
CHEM6001	Engineering Chemistry
BIOL6007	Biomolecules and Cells
MGMT6021	cGMP 1 & Quality Assurance
Elective	
Module Code	Module Title
BIOM6004	Contamination Control
BIOM6003	Cleanroom Management

Stage 1 / Semester 2

Mandatory	
Module Code	Module Title
OCCH6001	Health and Safety / Environment
CHEO6001	Organic Chemistry Fundamental
CHEP6003	Process Principles & Design 2
BIOT6003	Intro. Industrial Biotech
CHEP6004	cGMP 2 and Quality Control
CHEP6001	Process Engineering Labs 1