

APPROVED

Physical Sciences (Common Entry)
Faculty of Engineering & Science

Award Class					
Awards					
BSc					
Programme Code	CR_SOMNI_7	Mode of Delivery	Full Time, Part Time	No. of Semesters	2
NFQ Level	7	Embedded Award	No	Programme Credits	60
Next Review Date					
<i>Review Type</i>				<i>Date</i>	
Programmatic Review				01/03/2021	
Department	PHYSICAL SCIENCES				
Field of Study	4421 - Chemistry				

Programme Outcomes

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

#	PO Domains	Programme Learning Outcome
PO1	Knowledge - Breadth	A knowledge of relevant specific areas of science for working in science-based industry
PO2	Knowledge - Kind	The ability to apply principles and methodologies of science in both routine and problem resolution contexts
PO3	Skill - Range	The ability to apply a broad range of practical techniques, and to formulate detailed records and reports
PO4	Skill - Selectivity	The ability to select and use instrumental and non-instrumental methods of analysis
PO5	Competence - Context	The ability to identify, collect, and use data in the diagnosis and resolution of technical problems
PO6	Competence - Role	The ability to actively contribute to industry teams in a professional manner while exercising responsibility and judgement
PO7	Competence - Learning to Learn	The ability to identify and address ongoing learning needs, both within the workplace and using further education programmes
PO8	Competence - Insight	An awareness of the significance of a range of regulatory standards, and methodologies for their implementation

Semester Schedules

Year 1 / Semester 1

Mandatory				
Code	Title	Module Coordinator	Version	Credits
CHEM6002	Chemical Principles	Donagh OMahony	4	5
CMOD6001	Creativity Innovation&Teamwork	MARESE BERMINGHAM	3	5
MATH6000	Essential Mathematical Skills	David Goulding	2	5
PHYS6008	Instrument Measurement	Donagh OMahony	4	5
PHYS6011	Introduction to Physics	Donagh OMahony	4	5
OCC6002	Laboratory Practices	Donagh OMahony	3	5

Year 1 / Semester 2

Year 1 Semester 2 Elective Regulation

GE1 = BSc in Applied Physics and Instrumentation; GE2 = BSc in Analytical and Pharmaceutical Chemistry; GE2 has the Fundamental Physics module (ID 7953) and the Microbes, Enzymes & Energy module (ID 7384) module as elective modules.

Mandatory				
Code	Title	Module Coordinator	Version	Credits
ENVI6002	Environmental Instrumentation	Donagh OMahony	3	5
MATH6019	Technological Maths 2 & Maple	David Goulding	2	5

Group Elective 1				
Code	Title	Module Coordinator	Version	Credits
PHYS6007	Instrument Calibration	Donagh OMahony	5	5
PHYS6018	Sensors and Systems	Donagh OMahony	1	5

Group Elective 2				
Code	Title	Module Coordinator	Version	Credits
CHEM6004	Fundamental Physical Chemistry	Donagh OMahony	2	5
BIOT6001	Introduction to Biotechnology	Brigid Lucey	3	5
CHEO6001	Organic Chemistry Fundamental	Donagh OMahony	4	5

Elective				
Code	Title	Module Coordinator	Version	Credits
FREE6001	Free Choice Module	PAUL GALLAGHER	3	5
PHYS6042	Fundamental Physics	Donagh OMahony	3	5
BIOM6001	Microbes, Enzymes & Energy	Brigid Lucey	3	5

