



Institiúid Teicneolaíochta Chorcaí
Cork Institute of Technology

APPROVED

Awards

BEng (Hons)

Programme Code: CR_EAMTE_8

Mode of Delivery: Full Time, Part Time, ACCS

No. of Semesters: 2

NFQ Level: 8

Embedded Award: No

Programme Credits: 60

programmeReviewDate: June 2018

Department: MECHANICAL, BIOMEDICAL & MANUFACTURING ENGINEERING

Programme Outcomes

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

PO1	Knowledge - Breadth
	(a) Have a fundamental understanding of the theory, concepts and methods in mathematics, science, ICT, design, business and engineering practice relevant to Advanced Manufacturing Technology
PO2	Knowledge - Kind
	(a) Recognising any inherent limitations, the ability to derive and apply knowledge of mathematics, science, ICT, design, business and engineering practice to the solution and management of manufacturing engineering problems
PO3	Skill - Range
	(a) be capable of undertaking the technology, process, project and change management roles that meet the specific needs of discrete product industries
PO4	Skill - Selectivity
	(a) Be capable of selecting, implementing and managing appropriate technologies and/or methodologies to meet the requirements of industry
PO5	Competence - Context
	(a) Have the ability to identify, analyze, implement solutions and manage systems within manufacturing industries
PO6	Competence - Role
	(a) Have the ability to work autonomously and as a member of a multidisciplinary team; to take a leadership role within complex teams
PO7	Competence - Learning to Learn
	(a) Have the ability to manage his/her learning needs at the personal and professional levels and the requirement for continued professional development
PO8	Competence - Insight
	(a) Have a comprehensive understanding of the wider social, political, business and economic context within which engineering operates and the need for high ethical standards in the practice of engineering, including the responsibilities of the engineering profession towards people and the environment

Semester Schedules

Stage 1 / Semester 1

Mandatory	
Module Code	Module Title
MANU8002	Automation Systems
INTR8009	Engineering Project Management
MATH8005	Maths for Control and Quality
MANU8007	Quality Engineering
MANU8005	Project - Initial Research
Elective	
Module Code	Module Title
MECH8016	Process Automation and Control
FREE6001	Free Choice Module
MANU8001	Advanced Materials & Processes

Stage 1 / Semester 2

Mandatory	
Module Code	Module Title
MECH8019	Product Development
MANU8004	Manufacturing Systems
MANU8003	Maintenance and Reliability
MECH8006	Facilities Engineering
MANU8006	Project - realisation