



Institiúid Teicneolaíochta Chorcaí
Cork Institute of Technology

APPROVED

Awards					
BSc					
Programme Code:	CR_ECTMS_7	Mode of Delivery:	Full Time, Part Time, ACCS	No. of Semesters:	6
NFQ Level:	7				
Embedded Award:	No	Programme Credits:	180		
programmeReviewDate:	September 2018				
Department:	CENTRE OF CRAFT STUDIES				
Field of Study:	Manufacturing Engineering				

Programme Outcomes

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

PO1	Knowledge - Breadth
(a)	Demonstrate a knowledge of technologies and practices relevant to Mechanical Services design, installation , commissioning and maintenance.
PO2	Knowledge - Kind
(a)	Demonstrate the ability to develop and implement applied Mechanical Services solutions and to evaluate systems performance.
PO3	Skill - Range
(a)	Apply technical and managerial knowledge and skills to the solution of practical problems in Mechanical Services.
PO4	Skill - Selectivity
(a)	Select procedural knowledge and skills in response to the installation of system components or process to meet a specified need. To assess the technical performance of a Mechanical Services system.
PO5	Competence - Context
(a)	Conduct investigations to facilitate the solution of predictable and diagnostic Mechanical Services faults.
PO6	Competence - Role
(a)	Work effectively as an individual in teams and as a part of a multi-disciplinary team and communicate with all others involved in well-defined work settings.
PO7	Competence - Learning to Learn
(a)	Identify and address learning needs at the personal and professional levels within a structured learning environment and an awareness of continued professional development.
PO8	Competence - Insight
(a)	Demonstrate an understanding of the wider social, political, business and economic contexts of Mechanical Services, including an appreciation of the ethical issues involved.

Semester Schedules

Stage 1 / Semester 1

Mandatory	
Module Code	Module Title
CMOD6001	Creativity Innovation&Teamwork
CRAF6015	Mechanical Services Workshop
MECH6001	Intro to Mechanical Services
CRAF6016	Fluids and Gases
MECH6008	Introductory CAD
MATH6064	Mathematics for Construction

Stage 1 / Semester 2

Mandatory	
Module Code	Module Title
MANU6002	CAD Mechanical Services
CRAF6017	Industrial Services
CIVL6031	Health and Safety - Built Env.
CRAF6018	Pipe Jointing
CRAF6019	Refrigeration Tech

Elective	
Module Code	Module Title
ACCT6002	Cost Accounting
FREE6001	Free Choice Module
COMP6014	ICT for Eng Techs

Stage 2 / Semester 1

Mandatory	
Module Code	Module Title
CRAF6020	Mechanical Controls
MECH6019	Welding Technology
MANU6006	RFVTT Introduction
CRAF6021	Gas Technology
CRAF7005	Documentation Management
MANU6009	HVAC Systems

Stage 2 / Semester 2

Mandatory	
Module Code	Module Title
CRAF6022	Heating, Hot & Cold Systems
CRAF6023	Gas Fired Equipment
CRAF7004	Energy Management Systems
MGMT6059	Introduction to Management
MANU6008	Pipework Design
Elective	
Module Code	Module Title
FREE6001	Free Choice Module
MECH6039	TAGS welding to EN 287 std
BULD6024	Construction Law

Stage 3 / Semester 1

Mandatory	
Module Code	Module Title
CRAF7006	Sanitary Drainage & Water
CRAF7007	Renewable Heating Technology
CRAF7008	Workshop Pipe Fabrication
CRAF7009	Estimating for Mech Services
CRAF7010	Oil Fired Equipment
Elective	
Module Code	Module Title
FREE6001	Free Choice Module
BULD7027	Construction Contract
MGMT7021	Human Resource Management

Stage 3 / Semester 2

Mandatory	
Module Code	Module Title
CRAF7011	Mechanical Services Project
CRAF7012	Gas Controls Systems
CRAF7013	Industrial Oil Fired Equipment
CRAF7014	Industrial Renewable Tech
MGMT7023	Project Management