

TECH C1602: Technical Communications

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Module Title):	Technical Communications		
Language o	f Instruction:	English		
Credits:	5			
NFQ Level:	6			
Module Deli	vered In	5 programme(s)		
Teaching & Learning Strategies:		(a) Lectures & practicals (b) Assignments on the preparation of written documents (c) Assignments on the preparation of oral presentations.		
Module Aim	:	The aim of this module is introduce the students to management fundamentals and to provide them with the communications skills required of an engineer to produce reports.		
Learning Ou	ıtcomes			
On successfo	On successful completion of this module the learner should be able to:			
LO1	Explain the role of the manager and the nature of management.			
LO2	O2 Describe the context of management in business environments and apply this knowledge to business situations.			
LO3 Make ethical and		and informed decisions regarding the presentation of technical material.		
LO4 Prepare written documents in or		n documents in order to communicate technical information to a varied readership.		
LO5 Prepare oral prese		resentations for the purposes of communicating technical information to a varied listenership.		
Pre-requisite	Pre-requisite learning			
Module Rec	Module Recommendations This is prior learning (or a practical skill) that is recommended before enrolment in this module.			
No recomme	No recommendations listed			
	Incompatible Modules These are modules which have learning outcomes that are too similar to the learning outcomes of this module.			
No incompat	No incompatible modules listed			
Co-requisite	Co-requisite Modules			
No Co-requis	No Co-requisite modules listed			

Requirements
This is prior learning (or a practical skill) that is mandatory before enrolment in this module is allowed.

No requirements listed



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Module Content & Assessment

Indicative Content

Introduction to management

Role and nature of management. Functions of management. Management skills

Management theory
Business environments and planning tools (Task Factors. Macro Factors. PESTEL framework. SWOT Analysis. 7S. BCG Matrix. GE Matrix. Porter's 5 Forces.) Product Life Cycle.

Introduction to communications

The role of communications in engineering.

EthicsEthical decisions in engineering. Case studies. Code of Ethics. Copyright. Referencing. Plagiarism.

Effective technical writing. Forms of technical writing (e.g. memos, instructions, specifications, formal reports). Research & preparation. Effective use of word processing & graphing tools.

Presentations

Effective presentations.

Assessment Breakdown	%
Continuous Assessment	100.00%

Continuous Assessm	ontinuous Assessment			
Assessment Type	Assessment Description	Outcome addressed	% of total	Assessment Date
Other	Students will submit written assignments.	1,2,3,4,5	50.00	n/a
Other	Students will research & deliver an oral presentation.	3,5	30.00	n/a
Other	Other forms of assessment include class tests.	1,2,3,4	20.00	n/a

No Project	
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No Practical

No End of Module Formal Examination

SETU Carlow Campus reserves the right to alter the nature and timings of assessment



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Module Workload

Workload: Full Time		
Workload Type	Frequency	Average Weekly Learner Workload
Lecture	Every Week	1.00
Practicals	Every Week	1.00
Estimated Learner Hours	Every Week	2.00
	Total Hours	4.00

Module Delivered In

Programme Code	Programme	Semester	Delivery
CW_EEBEE_B	Bachelor of Engineering (Honours) in Biomedical Electronics	2	Mandatory
CW_EESYS_B	Bachelor of Engineering (Honours) in Electronic Engineering	2	Mandatory
CW_EMMEC_B	Bachelor of Engineering (Honours) in Mechanical Engineering	1	Mandatory
CW_EEBEE_D	Bachelor of Engineering in Biomedical Electronics	2	Mandatory
CW_EEMEC_D	Bachelor of Engineering in Mechanical Engineering	1	Mandatory