TECH C1602: Technical Communications

Module Title:	Technical Communications
Language of Instruction:	English

Credits:	5

NFQ Level:	8

Module Delivered 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 Outcomes	
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	Describe the context of management in business environments and apply this knowledge to business situations.
LO3	Make ethical and informed decisions regarding the presentation of technical material.
LO4	Prepare written documents in order to communicate technical information to a varied readership.
LO5	Prepare oral presentations for the purposes of communicating technical information to a varied listenership.

Pre-requisite learning
Module Recommendations *This is prior learning (or a practical skill) that is recommended before enrolment in this module.*
No recommendations listed
Incompatible Modules *These are modules which have learning outcomes that are too similar to the learning outcomes of this module.*
No incompatible modules listed
Co-requisite Modules
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.
Ethics Ethical decisions in engineering. Case studies. Code of Ethics. Copyright. Referencing. Plagiarism.
Written communications 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 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

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