

TECH C1602: Technical Communications

| University | | | | | | |
|--|--|--|--|--|--|--|
| Module Title: | | Technical Communications | | | | |
| Language of Instruction: | | English | | | | |
| Credits: | 5 | | | | | |
| | | | | | | |
| NFQ Level: 6 | | | | | | |
| Module Deli | ivered 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 communications skills required of an engineer to produce reports. | | | | |
| Learning Ou | utcomes | | | | | |
| 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-requisit | e learning | | | | | |
| | commendations learning (or a prac | ctical skill) that is recommended before enrolment in this module. | | | | |
| No recomme | endations 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 | | | | | | |
| Requiremen | | etical skill) that is mandatany before any liment in this madula is allowed | | | | |

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 Breakd | own | % | | | | | | | |
| Continuous Assessm | ent | 100.00% | | | | | | | |
| Continuous Assessment | | | | | | | | | |
| Assessment Type | Assessment Description | Outcom address | - | % 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 | 1,2,3,4 | | 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 | | 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 | | | |