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| Module Title: | Technical Graphics 2 |
| Language of Instruction: | English |
| Credits: | 5 |
| NFQ Level: | 6 |
| Module Delivered In | No Programmes |
| Teaching & Learning Strategies: | The module will be delivered using lectures and laboratory sessions to illustrate the concepts under study. |
| Module Aim: | Develop 3D CAD models of parts and assemblies for use in mechanical engineering practise. |
| Learning Outcomes | |
| <i>On successful completion of this module the learner should be able to:</i> | |
| LO1 | Develop 3D Models of parts using CAD systems |
| LO2 | Develop 3D assemblies using CAD systems |
| LO3 | Generate 2D drawings of mechanical parts and assemblies using CAD systems |
| LO4 | Generate part lists and BOM for assemblies |
| LO5 | Understand the engineering design process and the part it plays in the manufacture of products and components. |
| Pre-requisite learning | |
| Module Recommendations | |
| <i>This is prior learning (or a practical skill) that is recommended before enrolment in this module.</i> | |
| No recommendations listed | |
| Incompatible Modules | |
| <i>These are modules which have learning outcomes that are too similar to the learning outcomes of this module.</i> | |
| No incompatible modules listed | |
| Co-requisite Modules | |
| No Co-requisite modules listed | |
| Requirements | |
| <i>This is prior learning (or a practical skill) that is mandatory before enrolment in this module is allowed.</i> | |
| No requirements listed | |

Module Content & Assessment

Indicative Content

CAD Modeling - Parts

Part design using parametric modelers, working drawings, Product Data Management (PDM), CNC output data.

CAD Modelling - Assemblies

Assembly design using parametric modelers, motion study, working drawings and Product Data Management (PDM).

CAD Modelling - Layout

Plant layout design using parametric modelers, working drawings.

Assessment Breakdown

%

Continuous Assessment

100.00%

Continuous Assessment

| Assessment Type | Assessment Description | Outcome addressed | % of total | Assessment Date |
|-----------------------------|--|-------------------|------------|-----------------|
| Practical/Skills Evaluation | Individual assignments will be issued and submitted throughout academic year | 1,2,3,4,5 | 100.00 | 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

Module Workload

| Workload: Full Time | | |
|----------------------------|------------------|--|
| <i>Workload Type</i> | <i>Frequency</i> | <i>Average Weekly Learner Workload</i> |
| Laboratory | Every Week | 2.00 |
| Estimated Learner Hours | Every Week | 2.00 |
| Total Hours | | 4.00 |

