



Breda O'Brien

AutoDesk AutoCAD - Engineering Graphics

Secondary description example

Students develop an understanding of the principles behind drafting engineering drawings and its application in practice. Students are introduced to the methodological and technical aspects of engineering graphics. This module will provide opportunity to develop hands-on skills and experience in generating drawings using AutoDesk AutoCAD. Students are presented with an assignment brief, which provides instruction on the drawings, level of detail required, and a deadline for submission.

To earn this badge the student must:

- Apply basic engineering drawing concepts including multiview drawings, projections, section views, dimensioning, viewports, layers, layouts, and scales.
- Apply critical thinking to develop drawings based on the assignment briefs.
- Produce engineering drawings of a professional standard using AutoCAD that communicate the necessary information in an accurate manner.
- Complete a complex assignment practicing all developed skills and achieve 70% or higher.
- Achieve a final grade of 1st class honours in the module.

Skills

Communication: Conveyed engineering concepts through technical drawings and strengthened teamwork and problem-solving abilities in a lab environment.

Critical Thinking: Employed critical thinking to complete the drawing assignments, which included tasks such as converting between orthographic and isometric projections and being able to visualise the object being drawn.

Digital Skills: Completed drawings using AutoDesk AutoCad, including multi-view drawings, projections, section views, and dimensioning, viewports, layers, layouts, and scales.

Self-Awareness: Developed self-awareness by reflecting on one's own skill development over the module and the importance of accurate and professional drawing standards.

Teamwork: Fostered teamwork through collaborative problem-solving and hands-on learning in small groups in a lab setting, which included interpreting technical drawings, assisting one another in skill development, and resolving challenges together.

(Dh)JK

Ciarán Ó hOgartaigh
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