

CAD II

Semester: 2 (Spring)

Stage: 2

Number of Credits: 4 semester credits/6 quarter units

Prerequisites	CAD I
Assessment weighting	100% continuous assessment
Element	Drawing, Design
Supports stage learning outcomes	<ul style="list-style-type: none"> Communicate concepts, ideas and proposals to a high degree of visual and technical expertise in terms of drawing - freehand sketching, architectural drawings and computer-generated imagery.

Module aims	<p>The primary aim of the module is to:</p> <ul style="list-style-type: none"> Give students a very good standard of 2D computer-aided design. This is essential in order to scaffold later CAD modules. <p>The secondary aims are to:</p> <ul style="list-style-type: none"> Support the course and stage learning outcomes specifically with reference to the Design (Project Work), Technology and Drawing.
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<p>Module learning outcomes</p> <p>On completion of this subject students will be able to:</p> <ul style="list-style-type: none"> draw simple plans, sections and elevations to scale using a 2D software package understand the potential for using computers in the design process

<p>Syllabus:</p> <p>Line types and Line scale Isometric drawing. Features of AutoCAD text to include % options. Dimensioning, blocks, Wblocks, attributes, defining attributes and recalling them at a later stage</p> <p>Systems variables: Skpoly and mirror text, dimensioning style</p> <p>Dimension variables: Units list and distance commands, plotting drawings</p> <p>Incorporating CAD drawings in Photoshop</p>

Modification of CAD drawings in Photoshop

Teaching/learning methodology:

Students will be taught in interactive workshops in a specialised computer lab. Each session will incorporate a tutor-led demonstration of software applications. In order to achieve the learning outcomes, each session will also incorporate a practical session where students learn by experimenting with different media. Problem-based learning will also be used as a teaching methodology. Both group and one-to-one discussions will be encouraged. This module interrelates with other year modules in that students can scan and manipulate images of **Project Work**. Assignments are an integral part of the teaching methodology. Students will be expected to maintain very regular contact with their assignment supervisor. The responsibility to arrange one-to-one tutorials rests with the student.

Method of assessment:

This module is assessed by continuous assessment. The formative assessments will take the form of class tests, and research presentations that involve visual presentation material. The summative assignment is conducted by means of portfolio/process-portfolio appraisal.

Recommended reading

Inside AutoCad 2000	Bill Burchard	New Riders	2000
Inside AutoCad 14	Bill Burchard	New Riders	2002
3D Modelling in AutoCad	CD Rom	005.369	
Architectural Modelling and Rendering with AutoCad R14	Branco Koleravic		1998
Inside Adobe Photoshop 6	CD Rom	005.369	
The Photoshop 6 Wow Book	Linnea Dayton	Peachpitt Press	2002