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[Technical Support](#)

Definitive Module Document (DMD)

[Back](#)

[Module Info](#) > DMD

Module Code: 2AAD0027

Title of Module

Full Title: Computer Aided Design

Short Title: CAD

MODULE

2AAD0027 (A 05/6)

Computer Aided Desig...

- [Module Homepage](#)
- [Module News](#)
- [Module Information](#)
- [Teaching Resources](#)
- [Reading List](#)

Search Website

Version: 1

Credit Points: 15

Level / ECTS Level: 2

First Offered: 26/9/2005 00-00-00

6. Home Department:

AAD

7. Departments(s) contributing to teaching:

9. Module Aims:

- develop insights into the capabilities and applications of contemporary CAD systems
- use a 3D CAD system to create models of parts & assemblies
- apply 3D CAD tools effectively to the design of products

10a. Learning Outcomes: Knowledge and Understanding:

- understand the capabilities and application of 3D CAD tools
- understand a range of 3D modelling techniques
- understand design intent and how to embody this into CAD models
- appreciate the potential for integrating CAD with downstream CAE tools

10b. Learning Outcomes: Skills and Attributes:

- be able to produce solid models of prismatic & sculptured parts
- be able to create 3D solid assembly models
- be able to use shared data effectively in CAD applications

11. Module Content

11a Module Content:

The module introduces students to the use of modern computer-aided tools for the design of engineering products.

The main focus is on the effective application of 3D solid modelling (CAD) to create parts and assemblies of parts, and understanding how these can embody the design intentions of the engineer/ designer. Students will both

create their own models and acquire and use models from other sources thereby simulating a typical industrial CAD context.

11b. Further details on how the learning outcomes of the module will be achieved:

The range of delivery styles and the breadth of course work provides the opportunity for the teaching team to meet all the course specific learning outcomes. The intended learning outcomes are facilitated through a series of lectures, tutorials activities and course work to fulfil the aims and learning outcomes of the module, by encouraging the students to access a variety of resources, such as Studynet, relevant professional and academic texts as well as CAD facilities

Lecture contents includes-

- 3D CAD principles
- CAD solid modelling applied to practical problems
- using CAD effectively as a design tool

Tutorials/ Hands on work

- Introduction to CAD software
- Hands on CAD study examples

Course work

- CAD solid modelling applied to practical engineering problems
- Specifically targeted CAD problems

12. Language of Delivery:

English

13. Language of Assessment:

English

14. Assessment Details (Academic):

Coursework: 100

Exam: 0

Other:

Assessment Notes:

Typically 3 progressive assignments, initially assessing CAD skills and then the effective application of the CAD tools to design problems. A mix of individual and small group assignments.

15. Locations(s):

UH HATFIELD

16. Pre and Co-Requisite:

Pre-Requisite

Co-Req

Prohibited

17. Subject Board of Examiner/s:

18. Comments

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