# **Engineering Tripos Part IA, Drawing, 2019-20**

#### Lecturers

Dr Richard Roebuck (Mich.), Dr Nathan Crilly (Lent) [1]

## **Timing and Structure**

A single lecture will introduce each term's course. Michaelmas: Four 2-hour lab sessions available for help desk support with three exercises to be assessed in these sessions. Lent: Five self-paced workbooks with two scheduled mark up sessions.

### **Aims**

The aims of the course are to:

- Understand the role of engineering drawing in design, communication and production.
- · Learn how to interpret different types of engineering drawings.
- Learn how to produce different types of engineering drawings (and select the appropriate type).

# **Objectives**

As specific objectives, by the end of the course students should be able to:

- Use a professional CAD package to create models of engineering components and assemblies.
- · Demonstrate the knowledge and skills required to read and produce engineering drawings.

### Content

The IA Drawing course runs in the first two terms. The Michaelmas term focusses on learning the basic operation of a professional CAD package. The Lent term focusses on learning and applying the principles and practices that underpin engineering drawing.

#### Michaelmas Term (CAD)

- Parts
- Assemblies
- Drawings
- · Project data management
- Revolves
- Sweeps
- Patterns
- Surfaces
- Sheet metal
- Weldments
- Animation

## **Lent Term (Engineering Drawing)**

· Orthographic projections

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- · Isometric drawing
- Auxiliary views
- Sectioning
- Dimensioning

#### **Further notes**

There is a moodle [2] page supporting the course.

### **Booklists**

Please see the **Booklist for Part IA Courses** [3] for references for this module.

## **Examination Guidelines**

Please refer to Form & conduct of the examinations [4].

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#### Links

- [1] mailto:rlr20@cam.ac.uk, nc266@cam.ac.uk
- [2] https://www.vle.cam.ac.uk/course/view.php?id=69741#section-2
- [3] https://www.vle.cam.ac.uk/mod/book/view.php?id=364071&chapterid=42071
- [4] https://teaching19-20.eng.cam.ac.uk/content/form-conduct-examinations