University of Bristol Design & Computing AENG11600

Detail Design & Manufacture

Course outline

(formerly Design and Graphical Communication)

This part of the unit will be delivered and supported by:-

Richard Martin

Set A (Lab groups A1.1-A1.15) Set B (Lab groups A1.16-A1.30)

Rob Worboys Gordon Clarke
Sam Scott Max Dixon
Ashwin Kristnama Aewis Hii
Jonathan Stacey Jakub Rycerz

(Supporting staff attendance may vary depending on availability, and may include: Muhammad Othman, Oliver Nixon-Pearson, Bruce Bardsley and Bradley Cox)

Session dates

There are 10 sessions on Thursday afternoons from 14:00 to 17:00:-

Marks (max.)
5
5
5
sation 10
5
25
35

Your attendance is required at all 10 sessions. It will be recorded and contribute to your marks. Make sure you have an attendance mark before you leave the session. They will not be given retrospectively.

Assessment

The Detail Design and Manufacturing sessions and assignments contribute 20% to the overall marks for this module. You will be given exercises and assignments to complete, which will attract marks:-.

For each attendance 1 mark, giving a maximum of 10

Assignments 1-6 (Drawing): a maximum of 55 marks. Assignment 7 (Manufacturing): a maximum of 35 marks.

The maximum for DD&M (formerly D&GC) is therefore 100.

Assignment content

Drawing assignments 1-6 - subject areas

May include: drawing projection (First, Third, Isometric); dimensions and tolerances; standards and conventions.

Manufacturing assignment - subject areas

Part 1 – Detail Design. Design and draw a shaft to compete the assembly of existing components (bearings, etc.), with consideration for function <u>and</u> manufacture.

Part 2 – Machining processes. Construct a process plan listing machining processes (e.g. sawing, turning, milling) and associated procedures and equipment.