**OCR Level 2 Cambridge National Certificate in Engineering Design**

**What qualification does this course lead to?**

You will be awarded one of the following grades: L2 Pass, Merit, Distinction and Distinction\*.

**What topics will I study?**

* R105: *Design briefs, design specifications and user requirements.* This is a written examination set and marked by OCR. 1 hour exam
* R106: *Product analysis and research.* Centre assessed tasks OCR moderated
* R107: *Developing and presenting engineering designs.* Centre assessed tasks OCR moderated
* R108: *3D design realisation.* Centre assessed tasks OCR moderated

Centre assessed tasks

You will be given an assignment based on the unit of work. You will collect evidence and present it in the form of an assignment as evidence. Tasks could include prototyping a design using craft materials, disassembly of an existing product, creating engineering drawings, writing reports about your findings.

**What understanding and skills will I develop?**

* The design cycle
* Design specifications and the development of new products
* Wider influences of developing new products
* Product disassembly and evaluation including manufacturing processes, end of life and legislation considerations
* Sketching design ideas
* CAD design

**How will I learn/ how will I be taught?**

There are a variety of teaching and learning styles used. These include research, where the pupils find out information for themselves; both theory and practical based activities including activities such as drawing and making a prototype from craft material.

**How will I be assessed?**

R105: External Examination 60 marks – 25 % of final mark.

R106-R108: Centre assessed tasks of 3 units of work, externally moderated. Each unit is worth 25% (in total 75% of final mark)

**What can this course lead on to?**

P16 engineering courses

**Who do I need to contact for more information?**

Mrs E. Dandy

**Students will need to be photographed as evidence of work undertaken**

**Maximum class sizes: 15**

**Maximum number of classes: 2**