

## **Design Engineer Construct**

*Design, Engineering & Technology*

### **What are the aims of this course?**

DEC is a hands on, project based learning experience – from fun workshops where you design your own Eco Building, to getting your hands on high-tech industry tools and software.

DEC gives you more than just theory; it helps you put maths into practice, with lots of opportunities for you to discover where and how it is applied in the world of work.

In DEC you'll prepare reports, presentations and feedback – many of which are presented to genuine Built Environment specialists.

It's more than academic...DEC! lets you use your imagination and creativity too. As part of a sustainable building project you will take on creative roles such as architect and landscape. DEC helps you get to grips with the communication, team working and presentation skills you'll need to succeed in the real world of work.

DEC has been designed with the help of Built Environment professionals so it's relevant and will give you up-to-date skills and knowledge.

### **What skills will I develop?**

Course activities will provide you with opportunities to build self-confidence, generic and transferable skills in numeracy, employability skills, thinking skills and skill in planning and organising work tasks and working independently and in collaboration with other, as well as skills in communication and in self-and peer-evaluation in an engineering context. You will also be using BIM software called Revit.

Pupils will cover topics such as:

- Sustainability and the environment
- Design thinking
- Materials and their properties
- Project management
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### **What learning and teaching approaches will I experience?**

You will experience many different approaches to your learning. These will include whole class lessons and demonstrations, as well as learning within small groups and independently. You will be encouraged to take responsibility for some of your learning.

### **How will I be assessed?**

Design Engineer Construct! ® has been formally recognised in Scotland thanks to the key support of the Chartered Institute of Building.

For clarification, DEC is not an SQA awarded National Qualifications, however SQA have performed the role as a credit rating body to ensure that DEC! qualifications have a recognised level on the SCQF and that candidates will be awarded credit points for potential credit transfer onto further study if required.

### **What might the course lead to in the future?**

It is hoped that pupils taking Engineering Science in S3 will complete N4 or N5 in S4. The S4 Course or its Units may provide progression to the level 2 DEC course or a career in the Built Environment.