



ARCHITECTURE (DESIGN ENGINEER CONSTRUCT)

LEVEL 3 DIPLOMA

Entry Requirements: Grade 5 in Mathematics and a grade 5 in a Science (Portfolio of technical drawing or computer modelling if Architecture or Design Technology was not taken at GCSE)

Exam board: COYO

Why study Architecture:

The Design Engineer Construct Level 3 qualification is an advanced programme for learners looking to increase their knowledge of professional practice in the digital Built Environment.

Students will be provided with a unique opportunity to develop the knowledge, competencies, behaviours and skills fundamental to successful engagement in the professional aspects of architecture, engineering and construction. Students advance their digital skills throughout the learning programme, including the use of digital modelling and analysis tools using industry standard software for building and infrastructure design.

Aligning with the Sustainable Development Goals, the themes of social, environmental and economic sustainability run throughout the programme, and learners discover how to minimise their own and their community's impact on the planet through project based learning. Thus enabling students to understand the value of inclusivity and diversity, designing for a world where everyone matters.

Subject Specification Outline:

Learners develop, design, deliver and evaluate a fit for purpose, functional building based on their own interpretation of a 'real' project brief. This brief can be obtained from a range of sources, for example a local project where access has been provided by industry professionals known to the school.

Their building should be highly sustainable and inclusive and enable learners to demonstrate advanced knowledge and use a range of industry process and digital skills.

Building types they might consider are:

- Office blocks
- Retail Units
- Housing

- Outdoor Activity Centres
- Mixed Use Developments
- Schools for special educational needs

Learners can use an existing site as the 'building site' location of their building and/or use web-based mapping tools and other technology platforms to access a range of industry specific site information.

Final Exam Format:

DEC students operating at Level 3 produce a sizeable portfolio and explore more advanced elements of building design, for example geospatial surveying techniques, life-cycle analysis, financial planning and structural detailing. The final grade is determined through a combination of portfolio work and external examination.

Self Study Requirements:

Coursework tasks are not completed purely within lesson time. Pupils are expected to carry out extensive researching around their work in order to create the required portfolio,

Extension activities will also be set.

Progression Pathways:

Successful completion of the course will provide students with an excellent basis for entry into a variety of pathways within the design, engineering and construction industry including Architecture, Building Management, Building Surveying, Quantity Surveying, Land Surveying, Building Control, Design Engineer, Multimedia Designer, Engineering, (Civil, Mechanical, Structural) The course can also lead to progression to Higher Education Courses including Architecture, Architectural Technology, Product and Industrial Design, Building and Construction, Engineering, and Art & Design Foundation Courses.