

Designing, Engineering and Constructing a Sustainable Built Environment

Subject Information Sheet

Course Title:	DEC: Design, Engineer and Construct
Subject:	Designing, Engineering and Constructing a Sustainable Built Environment
Qualification:	Level 3 Diploma (applied general)
Exam Board:	TQUK
General Course Description	<p>The course will take students through all aspects of the built environment and the processes to Design, Engineer and Construct a building. Site identification, stakeholder needs, Architecture, planning, structural engineering, landscape architecture, quantity surveying and project management.</p> <p>They will develop a building using professional software (Autodesk REVIT) that will meet the needs of the people of Sheffield.</p>
Course Content and Teaching Units	<p>Unit 1: Defining a Sustainable Construction Project 12 credits (60 GLH)</p> <p>Unit 2: Developing a Sustainable Construction Project 10 credits (60 GLH)</p> <p>Unit 3: Support Design, Structural and Services aspects of a Sustainable Construction Project 8 credits (60 GLH)</p> <p>Unit 4: Deliver Design, Structural and Services Aspects of a Sustainable Construction Project. 10 credits (60 GLH)</p> <p>Unit 5: Lifecycle and Financial Planning for a Sustainable Construction Project 10 credits (60 GLH)</p> <p>Unit 6: Evaluating and Documenting a Sustainable Construction Project 10 credits (60 GLH)</p>

	http://teachers.designengineerconstruct.com/curriculum/criteria-outcomes/level-3/
Entry Requirements	5 in Maths and 5 in Product Design, DEC, Art or Geography Level 2 Designing the Built Environment (ideal)
Assessment	<p>Designing and modelling a sustainable building in Sheffield. Producing a design portfolio that explains all your decisions along the way. 50% of the course</p> <p>A written exam of all the key terms and knowledge. 50% of the course</p> <p>https://teachers.designengineerconstruct.com/curriculum/criteria-outcomes/level-3/</p>
Financial Information	Free copy of Autodesk REVIT to use at home.
Progression Opportunities	<p>University to study: Architecture, Architecture technology, Building Services Engineering, Built Environment, Civil Engineering Construction project management, Land Surveying, Quantity Surveying, Structural engineering, Town Planning,</p> <p>High Level Apprenticeship within the Built Environment and construction</p>
Further Information about our courses including results	<p>A number of the students have taken part in work experience with local Architects, project managers, quantity surveyors, structural and civil engineers.</p> <p>A number of our students secured degree and High level apprenticeships with Arup, Laing O'Rourke, Sheffield Hallam University and local architects.</p> <p>2017-2018 A*-B = 100%</p> <p>2018 -2019 A*-C = 100%</p> <p>2019-2020 A*-C =100%</p> <p>2020-21 A*-B =67% A*-E=100%</p>

	2021-22 A*-B = 62% 100% = A*- D 2022-23 A*-B = 80% A*-C = 100%
Trips, visits and extra-curricular	Site visits to Kelham Island, ARUP & BDP companies. Working with Engineers from our partners ARUP, lecturers and students from Sheffield University and Sheffield Hallam University. Work experience can be arranged with multinational firms within different disciplines.