

# **SCHOOL OF CIVIL ENGINEERING AND SURVEYING**

**ACADEMIC YEAR 2023/2024**

## **CONSTRUCTION TECHNOLOGY-M32575-FHEQ\_7**

**Coursework**

**Open Book**

**Instructions:**

Complete the task described on the following pages in accordance with the criteria stated and submit your work on Moodle before the deadline. **Late submissions will not be accepted.**

**Provided:**


N/A

**Module Coordinator:**

Stephen Neale

**Author:**

Stephen Neale

<b>School of Civil Engineering and Surveying</b>		 UNIVERSITY OF PORTSMOUTH		
			<b>Date Set:</b>	<b>15 April 2024</b>
<b>Course:</b> MSC QUANTITY SURVEYING MSC REAL ESTATE MANAGEMENT			<b>Date Due:</b>	<b>26 July 2024</b>
<b>Lecturer:</b>	Stephen Neale			
<b>Module Name</b>	CONSTRUCTION TECHNOLOGY-M32575-FHEQ_7			
<b>Artefact Number</b>	Artefact 3	<b>Artefact Title</b>	Second Attempt Coursework	

### Task:

1. This assessment is based on an [online case study](#) of The Forge, 105 Sumner Street, Southwark, London.
2. Use the link in task item 1 above and read the case study. You can also conduct your own additional research on the case study.
3. Write a 1500 word critical evaluation of the design of the case study that evaluates all of the following:
  - a. An example of how the design of the building's fabric achieves its intended technical performance criteria (300 words).
  - b. An example of how the design of the building's services achieves its intended technical performance criteria (300 words).
  - c. An example of how the design of the building complies with legislation (300 words).
  - d. Examples of how the design of the building uses innovative materials AND best practice (300 words).
  - e. Examples of how technical design decisions made about the building enabled a sustainable development strategy to be achieved (300 words).
4. Illustrate at least TWO of your examples with your own free hand sketches.
5. Your evaluation must be technical and relate directly to the case study. (**Note:** the focus of this module is **technical**, **not** other criteria like cost, management or urban planning!).
6. MSc level work demands critical, evaluative methods, showing reasoning and justification. Guidance on writing critically is available from the University of Manchester (*Academic Phrasebank*, n.d.).

Continued.../

7. The reasoning and justification in the written evaluation should be supported by evidence from **cited research** obtained from professional sources, such as BRE, CIBSE, BSRIA and CIRIA publications. No more than 20% of your citations should be non-academic or non-professional, internet sources.
8. **Citations** and **references** should be presented in **APA7** style.
9. Use a technical, objective writing style, without personal pronouns (I, me, my, you, your, we, us etc). Structure the evaluation with 5 sub-headed sections, with one section for each of the 5 items listed in task 3 above.

### Learning outcomes:


1. Critically evaluate the technical criteria applicable to the design of a building.
2. Critique the impact of legislation, innovative materials and best practice guidance on the design and construction of buildings.
3. Discriminate between sustainable development strategies relating to the technical decision-making in building construction projects.

### Reading / References:

Relevant resources are listed on the module's Moodle site.

### Submission Instructions:

- Upload your final submission as a single PDF file to a drop box on the Module's Moodle site – it is important to submit a PDF file in order for your work to be accessed and assessed on Moodle effectively.
- Drawn illustrations should be scanned and inserted into your written work.
- Before you submit your work, ensure that you have the correct file for assessment.
- Your submission will only be assessed if it has been submitted to the correct submission box **before 16.00h BST 26 July 2024**.
- **Late submissions** after the deadline **WILL NOT BE ACCEPTED**. Aim to submit your work well ahead of the deadline in order to avoid any technical problems with your submission and to be able to get help in University working hours, should you need it.
- **Ensure that your file name/assessment title includes your student ID.**
- Maximum file size is 250MB.
- You can upload your file/submission more than once, however, only the final submission before the deadline will be assessed/marked. If you retract your submission, please remember to upload your new file/submission to be assessed/marked.
- Electronic submission ONLY - you are NOT ALLOWED to submit a paper copy.
- **Similarity check:** Your *Moodle* submission will automatically be run through *Turnitin* to check for similarity with other sources. Evidence of similarity may be considered to be **plagiarism**, which is an academic offence punishable by a reduced mark as low as zero. You should write in your own words and never copy the work of others. Avoid cutting and pasting material from websites and electronic documents because this will be highlighted by *Turnitin* as copied work. For more information, click on *The Students' Union* icon on your *MyPort* web page and use the search function to look for 'plagiarism'.

<b>School of Civil Engineering and Surveying</b>  <b>Coursework self-assessment sheet for students</b>		 UNIVERSITY OF PORTSMOUTH		Student Registration Number:	
				Date:	
Module Name	CONSTRUCTION TECHNOLOGY-M32575-FHEQ_7				
Artefact Number	Artefact 3	Artefact Title	Second attempt coursework		
The University of Portsmouth regulations require students to keep electronic copies of all assignments, and submit these at any time upon request.  Shaded areas to be completed by the student and this sheet submitted with the assignment.					

**Student comment: I have read and understood the University's regulations on plagiarism – please type an 'x'**

Criteria Description	Weighting %	Student Evaluation (to be completed before submission) (enter an 'x' in required boxes)						
		Pass					Fail	
		A*	A	B	C	D	E	F
Relevance to the tasks (All learning outcomes)	40				X			
Validity of the answers to the body of technical and professional knowledge (All learning outcomes)	40				X			
Relevance and clarity of sketches	20				X			

Overall Grade (to be completed before submission)	Letter Grade (A* - F)	Percentage (100 - 0)

**Key:** A\*: 80% or above, A: 70% - 79%, B: 60% - 69%, C: 50% - 59%, D: 40% - 49%, E: 30% - 39%, F: 29% or less  
**IMPORTANT:** See separate Grade Criteria for characteristics of work in the above grades

<b>Student Comment</b> (to be completed before submission)

## GRADING RUBRIC

Grade	Assessment criteria
A* 80% or above	The submitted material is comprehensive and directly relevant to the task and learning outcomes. The problems, recommendations and reasoning demonstrate critical evaluation and are articulated clearly. The concepts of the task have been extended through individual enquiry with reference to valid, accurately cited research, which includes high level academic sources. Illustrations and images are predominantly authentic and are explicitly labelled and cross-referenced to the text. The presentation has few errors in organisation, structure, grammar, spelling and punctuation.
A 70% to 79%	The submitted material is thorough and directly relevant to the task and learning outcomes. It is well argued in a critical and competent manner. The concepts of the task have been extended through individual enquiry with reference to valid, accurately cited research. Illustrations and images are predominantly authentic and are explicitly labelled and cross-referenced to the text. The presentation has few errors in organisation, structure, grammar, spelling and punctuation.
B 60% to 69%	The submitted material is detailed and predominantly relevant to the task and learning outcomes. The concepts of the task have been considered and evaluated. Research is evident from a valid range of sources which have been mostly cited clearly, in a correct style. Illustrations and images are a mix of authentic and secondary items, labelled and cross-referenced to the text in an understandable manner. The presentation has minor errors in organisation, structure, grammar, spelling and punctuation.
C 50% to 59%	The submitted material demonstrates an understanding of the task and learning outcomes, which have been considered and critically discussed. Research is evident from a range of sources which have been cited, but not always in a correct style. Illustrations and images are a mix of authentic and secondary items, which can be identified and understood in the context of text. The presentation has some errors in organisation, structure, grammar, spelling and punctuation, which could have been avoided with careful editing.
D 40% to 49%	The submitted material attempts to address the task in relation to the learning outcomes, but it requires interpretation by the reader. The text is mainly descriptive or assertive. Some basic research is evident, but poorly cited and referenced. Illustrations and images are mainly secondary items, which tend to be isolated from the text. The organisation, structure, grammar, spelling and punctuation of the submission, is evident but perfunctory.
E / F 39% or less	An inconsistent or incomplete attempt. Little effort has been made at interpreting the task or relating it to the case study. Little or no research has been done. There are serious deficiencies in organisation, structure, language, grammar, spelling and punctuation.