

LEVEL 6 ASSESSMENT SPECIFICATION

Student name:		Student ID number:	
Programme:	Architecture BSc		
Module:	Studio 3C		
Module code:	M6X01985	Contribution to Overall Module Assessment (%):	100%
Lecturer:	Paul Harries	Internal Verifier:	Gavin Traylor
Assignment Title:	Architecture Studio 3C Design Project/ Technical Report	Word count (or equivalent):	
Submission deadline:	10.00 a.m. 1 st May 2019	Return date of provisional marks & written feedback:	
Submission method:	All written assessments, where practical and possible, must be submitted via Turnitin unless otherwise instructed by the Lecturer. (Please DO NOT put this assessment specification into Turnitin or it will match many similarities with other students' submissions.) Alternative submission method (if applicable): Late submission of the assessment will result in a late penalty mark. Penalties for late submission: Up to one week late, maximum mark of 40%. Over one week late, 0%. Only the Extenuating Circumstances Panel may approve a change to submission dates.		
Academic honesty / referencing:	Academic honesty is required. In the main body of your submission you must give credit to authors on whose research and ideas your work is based. Append to your submission a reference list that indicates the books, articles, etc. that you have used, cited or quoted in order to complete this assessment.		

Module Learning Outcomes (from module syllabus)

- Create a well-ordered design for a moderately complex non-domestic building in response to a defined brief that satisfy user needs and relates well to physical and cultural context.
- Explain the characteristics of contemporary frame construction and detailing in the context of the design of a general arrangement for the structure, fabric and services of a moderately complex non-domestic building
- Explain of principles low carbon design to create comfortable internal conditions effectively and efficiently
- Communicate architectural, technical and urban design ideas using a range of media including: writing, visual images, physical and digital models and verbal presentations

TASK DESCRIPTION

Introduction

This Studio forms the final part of three studios that form a continuous programme of third year studio work. Having selected a project, compiled a brief and produced a design for your project as part of Studio 3A and 3B. This studio gives you the opportunity to develop your scheme to a level of detail design over a period of 8 weeks. You will also prepare a technical report as part of this project covering structure, construction and environmental strategy. Please note that the technical report is 50% of this design module. However, the design development you undertake in this studio will feed directly into the design report. The report and the technical design development are inextricably linked.

Aims

This is the second of two third year second semester modules (Architect Studio 3B and 3C) that together offer an integrated sequence of design tasks and share the same learning outcomes. Students build on the design skills acquired in the first and second year architecture studio modules and M6X01983 Architecture Studio 3A which runs in the first semester bringing those skills to bear on an integrated building design in a clearly defined context that meets the requirements of a brief and responds creatively to its physical and cultural context. The focus is on architectural design and technical resolution. In a single integrated design project that is spread over the two modules students apply observational and analytical methods to demonstrate their design and communication abilities. Students respond individually to a detailed design brief. Ideas are developed using a variety of graphic and computer-based methods supported by discussion with tutors, fellow students and others. Proposals are presented using drawings, sketchbooks, physical models and digital images, often accompanied by explanatory text. In this module, the final stage of the UG design project sequence students develop their personal design project, started in M6X01984 Architecture Studio 3B, in significant detail, prepare final presentation drawings, models etc and submit a detailed technical report.

Objective

You have already prepared a design scheme for your chosen building. This studio gives you the opportunity to develop the technical resolution of your building. Do not lose sight of the design research that you have undertaken – you may need to generate further design drawings, sections etc in order to resolve some of the technical aspects of your design. At the end of this studio you will have a proposal for the structure, building services and details showing the type of materials you are proposing.

The following are required as part of your submission:

1. Drawings indicating your proposed structural solution.
2. A materials board showing the materials proposed for the external envelope and internal finishes.
3. A 1:20 section through the external wall (you may require more than one wall section to show the various conditions)
4. A 1:20 Section through the roof.
5. 1:5 Details showing the key junctions: wall/roof, window jamb and head details, door jamb and head details, rooflights etc. (we will agree an appropriate section of details).
6. Drawings indicating the environmental strategy – natural ventilation, insulation, shading etc.
7. Drawings indicating your fire escape strategy.
8. Drawings showing your structural strategy.
9. A physical model of your proposal, or a detail of your proposal (scale to be agreed).
10. A technical Design report that draws upon the above and summarises the design philosophy and intent.

The Technical design report carries 50% of the marks of this studio module. In the course book module descriptor it is described as follows - Design report, including technical studies explaining structural constructional environmental strategies (2-3000 words)

You can structure the report as you wish but I suggest the following structure/content headings as a guide:

1. Introduction to the project – this should contain a brief description of the project proposal and how you have satisfied the requirements of the brief.
2. Your design philosophy – i.e. your approach to the design – this should be illustrated with diagrams showing your strategic moves.
3. Your choice of materials – an illustration of your materials with an explanation of their properties and why you selected them.
4. Structural strategy – State the type of structure you have selected, explain your reason for selecting it, describe your structure and include illustrations to show the structural elements (it is accepted that sizes will be approximate).
5. Sustainability – describe the key considerations that have influenced your approach to sustainable design. This could refer to issues regarding embodied energy, a fabric first solution, high levels of insulation, natural ventilation strategies, use of renewables, recyclable materials etc.
6. Environmental Strategy – following on from a summary of your proposals for ventilation, heating and lighting.
7. Interior fit out – an indication of the internal finishes – with illustrations of proposed materials – floor, ceiling, walls. This should also include proposals for lighting and fitted furniture (plus loose furniture if critical), sanitary fittings etc.
8. A selection of details of the building – these could be small reproductions of the large scale details that you will pin up as part of your submission.

Please ensure that your report is heavily illustrated – it should be a visually engaging document not a dry technical Report. As I have indicated in the studio – the technical resolution is something that stems directly out of the architectural language you are trying to create – so make sure you give reasons for your decisions within the report. As indicated above you can re-work some of the material you pin up so it sits within the technical report – but be sure to add some commentary explaining the basis of your design decisions.

Timetable

Week 1 – Commencing Tuesday 11th February 2020 – 10.00 a.m.

Introduction to the module. A review of the drawings you should produce for your technical studies. The module is geared toward the technical resolution of your design proposals – however, in so doing you should be simultaneously be developing an appropriate design language for your design. The technology should be seen as a method of expressing your architecture as well as resolving technical problems. For the first week you should focus on developing 1:20 sections through the wall and the roof. We will start by reviewing the details that you have already prepared as part of your studio 3B submission.

Friday 14th Feb 2020 – Studio teaching with Mark Waghorn

Week 2 – Commencing Monday 17th February 2020– 10.00 a.m. – FORMAL REVIEW

You should present your 1:20 details on paper. We will do this as a formal review pinning up the details for discussion. This is best done as a group review - there will be common issues across the range of projects. Following the review we will discuss possible details that can be developed at a scale of 1:5. Typical details that will require further development at 1:5 will include the vertical junctions of wall to roof. During the rest of this week you will produce 1:5 details for presentation next Monday. In addition you will produce a fire strategy drawing identifying the means of escape from your proposal.

Friday 21st February 2020 – Studio teaching with Mark Waghorn

Week 3 – Commencing Monday February 24th 2020 – 10.00 a.m. STRUCTURE WORKSHOP

This studio will be focused on developing your structure. You will already have produced a sketch scheme for the structure so this studio will focus on developing a more accurate representation of the structure.

Friday 28th February 2020 – Studio teaching with Mark Waghorn

Week 4 – Commencing Monday 2nd March 2020 – 10.00 a.m.

FORMAL REVIEW

Please print out all of your details for a formal review. At this stage you will have a reasonable idea of what materials you will be using. For the rest of the week you will develop a specification for your buildings. This should be in the form of a draft specification outlining the key materials that you intend using plus a more detailed specification of your external envelope. Friday 8th March – Studio teaching with Mark Waghorn

Friday 6th March 2020 – Studio teaching with Mark Waghorn

Week 5 – Commencing Monday 9th March 2020 – 10 a.m.

SUSTAINABILITY WORKSHOP

A workshop focusing on your strategy for ventilation, heating, and services.

Friday 13th March 2020 – Studio teaching with Mark Waghorn

The Following Week, 16th – 20th March 2020, is the study trip to Amsterdam.

Week 6 – Commencing Monday 23rd March 2020 – 10.00 a.m. – Formal Review

Preparation of Technical Report

As indicated above your technical report should be assembled along side the production of the above drawings. This week you should start to assemble your technical report.

Friday 27th March – Studio teaching with Mark Waghorn.

Easter Break 30th March – 20th April 2020– Do not regard this as a holiday!

It is extremely important that you use this three week period to develop your design proposal. When you return after the easter break you have a further 11 days to develop complete this studio and finalise and refine your design.

Week 7 – Commencing Monday 20th April 2020 – 10.00 a.m.

Monday will start with a crits/tutorials in small groups. At this stage you should have developed a comprehensive set of details, some specification writing, sustainability, structure and fire strategy drawings. We will focus on how you may wish to revise your original design proposals to take into account any design development that has taken place over the preceding weeks. Over the easter period you should aim to pull together all of the above, revise your design as required and build a model – either of the complete building or a design detail. When you return you only have a week to complete this studio.

Friday 24th April – Studio teaching with Mark Waghorn

Week 8 – Commencing Monday 27th April 2020 – 10.00 a.m.

FORMAL REVIEW

This week you will be focused on preparing presentation material for your design – please refer to the requirements at the top of this programme.

Work to be submitted on Friday 1st May 2020 at 10.00 a.m.

Please ensure that work is pinned up by 10.00 a.m. so we can start the reviews on time.

Reviews to take place Friday 1st May 2020 commencing at 10.00 a.m.

Reading List

Recommended

GOLDSMITH, S 2000 *Universal Design* Oxford, Architectural Press

BROWN, G.Z & DeKAY, M. 2014 *Sun, Wind and Light: Architectural Design Strategies* Hoboken NJ, Wiley

Background

ALREAD, J, & THOMAS, L. 2007 *Design-Tech: Building Science for Architects*. Oxford, Architectural Press

BADEN-POWELL, C. 2011 *The Architect's Pocket Book 4th ed.* Oxford, Architectural Press

BRYAN, T. 2010 *Construction Technology: analysis and choice*. 2nd ed. Chichester, Wiley-Blackwell.

BRAND, S. 1997 *How Buildings Learn: What Happens after they are Built*, London Phoenix.

DEPLAZES, A. (ed.) 2005 *Constructing Architecture: materials, processes, structures: a handbook*. Basel, Birkhäuser

DYE, A & McEVOY, M 2008 *Environmental Construction Handbook*. London, RIBA Publishing

EDWARDS, B. 2014 *Rough Guide to Sustainability 4th ed.* London, RIBA Publishing

ELLINGHAM, I. & FAWCETT, W. 2013 *Whole Life Sustainability*. London, RIBA Publishing

HEYWOOD, H. 2012 *101 Rules of Thumb for Low Energy Architecture*. London, RIBA Publishing

HUNT, T., 2003. *Tony Hunt's Structures Notebook*. 2nd ed. London, Architectural Press

LATHAM, I & SWENARTON, M. (eds) 2007 *Fielden Clegg Bradley: the Environmental Handbook* London, Rightangle Publishing

LITTLEFIELD, D (ed) 2008 *Metric Handbook: Planning & Design Data 3rd edition*. London: Elsevier

KWOK, A & GRONDZIK, W. 2007 *The Green Studio Handbook*. Oxford, Architectural Press

PELSMAKERS, S. 2012 *Environmental Design Pocket Book*. London, RIBA Publishing
 RADFORD, A. *et al* 2014 *Elements of modern Architecture: Understanding Contemporary Buildings*
 London Thames & Hudson
 THOMPSON, R. 2007 *Manufacturing Processes for Design Professionals*. London: Thames & Hudson
 UNWIN, S., 1997. *Analysing Architecture*. London: Routledge
 UNWIN, S. 2012 *Exercises in Architecture*. London: Routledge
 WILSON, F. 1971 *Structure: the essence of architecture*. London: Studio Vista.

GUIDANCE FOR STUDENTS IN THE COMPLETION OF TASKS

(Lecturer – please insert guidance for students here. Please link the task to the five common assessment criteria overleaf)

ASSESSMENT CRITERIA

Areas of Performance	Outcome Statement	Mark % of overall
Design Development	Demonstration conceptual advancement	20%
Design Product	Demonstration of design embodying functional resolution and compositional skills	50%
Visual communication	Demonstration of engagement with diverse methods of communication and presentation	15%
Verbal Communication	Demonstration of capacity for clear and engaging communication	5%
Design Synthesis	Demonstration of synthesis of creative study	10%

MARKING CRITERIA AND STUDENT FEEDBACK

This section details the assessment criteria. The *extent* to which these are demonstrated by you determines your mark. The marks available for each criterion are shown. Lecturers will use the space provided to comment on the achievement of the task(s), including those areas in which you have performed well and areas that would benefit from development/improvement.

Studio Assessment Criteria Applied	Marks available	Marks awarded
1. Design Development <i>Demonstration conceptual advancement</i>		
	20	
2. Design Product <i>Demonstration of design embodying functional resolution and compositional skills</i>		
	50	
3. Visual communication <i>Demonstration of engagement with diverse methods of communication and presentation</i>		
	15	
4. Verbal Communication <i>Demonstration of capacity for clear and engaging communication</i>		
	5	
5. Design Synthesis <i>Demonstration of synthesis of creative study</i>		
	10	

Assignment Mark (Assessment marks are subject to ratification at the Exam Board. These comments and marks are to give feedback on module work and are for guidance only until they are confirmed.)	Late Submission Penalties (tick if appropriate)	
	Up to one week late	40%
	Over one week late	0%

Student Self Evaluation Form			
Student name:		Student number:	P
Programme:		Year programme	of
Assignment Title:			

This section repeats in brief the common assessment criteria detailed on previous pages. The *extent* to which these are demonstrated by you determines your mark. Using these criteria, tick the box that best indicates the level of achievement you feel you have achieved with regard to each of them.

Assessment Criteria Applied	Level of Achievement						
	REFER		3 rd	2:2	2:1	1 st	1 st
	OUTRIGHT FAIL	UNSATISFACTORY	SATISFACTORY	GOOD	VERY GOOD	EXCELLENT	EXCEPTIONAL
1. Design Development	0-29%	30-39%	40-49%	50-59%	60-69%	70-79%	80-100%
	☐	☐	☐	☐	☐	☐	☐
2. Design Product	0-29%	30-39%	40-49%	50-59%	60-69%	70-79%	80-100%
	☐	☐	☐	☐	☐	☐	☐
3. Visual communication	0-29%	30-39%	40-49%	50-59%	60-69%	70-79%	80-100%
	☐	☐	☐	☐	☐	☐	☐
4. Verbal Communication	0-29%	30-39%	40-49%	50-59%	60-69%	70-79%	80-100%
	☐	☐	☐	☐	☐	☐	☐
5. Design Synthesis	0-29%	30-39%	40-49%	50-59%	60-69%	70-79%	80-100%
	☐	☐	☐	☐	☐	☐	☐

PLEASE COMMENT ON AREAS IN WHICH YOU FEEL THAT YOU HAVE PERFORMED WELL	PLEASE COMMENT ON AREAS YOU FEEL THAT YOU NEED TO DEVELOP

Student's Name		Date	
Student's Signature			

