

## Liverpool John Moores University

Title: Arch Erasmus Portfolio  
Status: Definitive  
Code: **5051AR** (124429)  
Version Start Date: 01-08-2018

Owning School/Faculty: Liverpool School of Art & Design  
Teaching School/Faculty: Liverpool School of Art & Design

Team	Leader
Ian Wroot	Y

**Academic Level:** FHEQ5  
**Credit Value:** 84  
**Total Delivered Hours:** 420  
**Total Learning Hours:** 840  
**Private Study:** 420

### Delivery Options

Course typically offered: Standard Year Long

Component	Contact Hours
Lecture	38
Practical	344
Seminar	14
Workshop	24

**Grading Basis:** 40 %

### Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Essay	Essay 1	Semester 1 History & Theory Essay	14	
Essay	Essay 2	Semester 2 History & Theory Essay	14	
Report	Report	Semester 1 Technical Strategies Report	9	
Test	Test	Semester 1 Structures Test	3	
Practice	Erasmus	Semester 2 Erasmus Placement Coursework	60	

### Aims

### *History & Theory*

*To enable the student to understand the development of late seventeenth to early twentieth century architecture and urban design within their various cultural and historical contexts.*

*To understand and analyse seminal eighteenth to twentieth century architectural movements, ideas and buildings and to know their architects and designers.*

*To research, develop and prepare an academic illustrated and fully referenced essay produced on the computer that will form the basis for a PowerPoint presentation founded on the second semester units' investigations related to a relevant research topic to their current design project.*

### *Technology & Practice*

*To methodically inform students in matters of environmental design, structural design, materials choice and properties and the construction of buildings on site.*

### *Architectural Design Studies*

*Studies are undertaken abroad relating to the placement context.*

## **Learning Outcomes**

After completing the module the student should be able to:

- 1 Understand and analyse seminal eighteenth, nineteenth and twentieth century architectural movements, ideas and buildings, know their authors, and their influences on contemporary architecture and design.
- 2 Acquire a knowledge of the histories and theories of modern architecture and urban design, the history of ideas, and the related disciplines of art, cultural studies and landscape studies.
- 3 Write an illustrated and fully referenced essay, which indicates ability to cover through analysis and logical argumentation an issue of culture, theory or design.
- 4 evaluate the energy control issues & problems in large buildings.
- 5 Examine and critically review the selection and use of building materials and the issues involved in the 'finishing' of non-domestic buildings.
- 6 Generate proposals for the environmental strategies in use in non-domestic buildings.
- 7 Analyse and evaluate the structural processes taking place within the spanning elements of a building.
- 8 Analyse and evaluate the structural processes taking place within the vertical support elements of a building.
- 9 Examine and evaluate the application of CAD and other graphical software methods in the process of architectural design and representation.
- 10 Examine and critically review Environmental Assessment Procedures and their application in architectural design.
- 11 Outline the key issues of professional practice and legal matters in the procurement of buildings.
- 12 Research, understand and interpret related material towards the formation and development of their design project as directed within the framework of each unit.
- 13 Assimilate into the design process: cultural, theoretical / conceptual ideas,

- programmatic, structural, environmental and technological concerns, wherever applicable.
- 14 Engage in the design process through testing and/or formulation of architectural ideas by the exploration of various media such as sketching, drawing, collage, model making and CAAD.
- 15 Competently demonstrate the ability to produce presentational/representational material employing verbal, written and drawing techniques.

## Learning Outcomes of Assessments

The assessment item list is assessed via the learning outcomes listed:

Essay 1	1	2	3						
Essay 2	1	2	3						
Report	4	5	6						
Test	7								
Practiice	8	9	10	11	12	13	14	15	

## Outline Syllabus

### *History & Theory*

*First semester consists of a series of eight one hour lectures on the development of late seventeenth, eighteenth and nineteenth century architecture and urban design. Each session deals with a specific theme, where theoretical architectural concepts are explained and discussed in the context of their relevant cultural, social and technological context. A selection of seminal architects and artists and their works are used to illustrate the lecture.*

*In semester two studies are undertaken abroad relating to the placement context.*

### *Technology & Practice*

*This course begins a series delivered over Years 2 & 3 dealing with the technical realisation of buildings through analysis, design, detailing and site construction and supervision. Within this module, the issue of Practice is included.*

*Lectures are presented on the technology of environmental design; artificial lighting, the use and control of mechanical systems for heating and ventilation, together with energy management and conservation. The basic concepts and principles of acoustic design are also included.*

*Basic structural mechanics theory is introduced covering systems capable of spanning long distances and structural rules of thumb. Additional lectures on the detailed design of structural elements in timber, brick, concrete and steel are included.*

*The module also includes a sequence of 'construction' lectures continuing on from the lectures in Level 4, dealing with the 'making' of architecture. The course is structured according to the 'Common Arrangement', to allow a smooth progression into practice in the fourth 'year out'. The lectures are intended to aid the technical 'realisation' of work being produced in the design studio.*

*A course of lectures introduce more innovative methods of construction.*

*CAD Workshops give students the key skills necessary to represent their architectural ambitions. The syllabus covers techniques in presentation, architectural drafting, 3d modelling using both CAD and graphics methods, as well as the interface with CAD/CAM and rapid prototyping technology.*

*In semester two studies are undertaken abroad relating to the placement context.*

*Architectural Design Studies*

*Studies are undertaken abroad relating to the placement context.*

## **Learning Activities**

### **History & Theory**

Students are encouraged to read widely and research their chosen essay subjects using a variety of sources both in local libraries and institutions further afield. At the beginning of the semester one a directed Study Tour to a major European city of architectural importance will introduce the student to invaluable first-hand experience with seminal buildings, their creators and their users. Barcelona, Berlin, Amsterdam, Copenhagen, Paris and Athens have been the venues of past Study Tours.

In semester two studies are undertaken abroad relating to the placement context.

### **Technology& Practice**

Lectures and three half-day seminar/workshops in the first half of the year producing work related directly to the design module will also take place within this module.

Three half-day seminar / workshops exploring technical issues relating to a generic design project are delivered in the second half of the year. There are regular CAD workshops throughout the year.

In semester two studies are undertaken abroad relating to the placement context.

### **Architectural Design Studies**

Studies are undertaken abroad relating to the placement context.

## **Notes**

None.