

## Liverpool John Moores University

Title: ECONOMICS OF DESIGN  
Status: Definitive  
Code: **6015BEUG** (102795)  
Version Start Date: 01-08-2011

Owning School/Faculty: Built Environment  
Teaching School/Faculty: Built Environment

Team	Leader
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**Academic Level:** FHEQ6  
**Credit Value:** 12.00  
**Total Delivered Hours:** 26.00  
**Total Learning Hours:** 120  
**Private Study:** 94

### Delivery Options

Course typically offered: Semester 2

Component	Contact Hours
Lecture	12.000
Tutorial	12.000

**Grading Basis:** 40 %

### Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Exam	AS1	closed book	70.0	2.00
Report	AS2	essay/report	30.0	

### Aims

*To further develop knowledge, understanding and application of theories, principles and practical techniques involved with the assessment of value.*

*To understand the rationale of the decision to build, clients stated and unstated objectives and the mechanisms involved in the generation of the design process.*

*To understand how buildings can be analysed and appraised in terms of risk, environmental impact, initial and life cycle costs.*

*To consider new initiatives associated with early economic assessment of potential building projects.*

## Learning Outcomes

After completing the module the student should be able to:

- 1 Evaluate client objectives with regard to project design, environmental and performance results.
- 2 Assess the appropriateness of particular price information at differing stages in the evolution of the design.
- 3 Utilise conventional cost modelling techniques to generate appropriate price forecasting information for clients and other design team members.
- 4 Evaluate the potential contribution of new and emerging initiatives that a professional could utilise in adding value to the provision of early cost advice services.

## Learning Outcomes of Assessments

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

EXAM	1	4
REPORT	2	3

## Outline Syllabus

*An evaluation of competing project objectives and an appreciation of the processes involved in the generation of designs.*

*A consideration of the cost implications of design variables, morphology, energy concepts and environmental impact on forecasting building project prices for clients. A review of cost modelling techniques currently available, including empirical, statistical, regression modelling, resource and process, risk analysis, expert systems, value management and L.C.C. models for project optimisation, so as to assess their applicability and usefulness in contributing to the effectiveness of the design process.*

## Learning Activities

Lectures and tutorials.

## References

<b>Course Material</b>	Book
<b>Author</b>	Kirkham, R.
<b>Publishing Year</b>	2007
<b>Title</b>	Cost Planning of Buildings

<b>Subtitle</b>	
<b>Edition</b>	8th Edition
<b>Publisher</b>	Blackwell Publishing
<b>ISBN</b>	978140513070-7

<b>Course Material</b>	Book
<b>Author</b>	Jaggar, D. & Ross, A.D.
<b>Publishing Year</b>	2002
<b>Title</b>	Building Design Cost Management
<b>Subtitle</b>	
<b>Edition</b>	1st Edition
<b>Publisher</b>	Blackwells
<b>ISBN</b>	0632058056

<b>Course Material</b>	Book
<b>Author</b>	Walker, I. & Wilkie, R.
<b>Publishing Year</b>	2002
<b>Title</b>	Commercial Management in Construction
<b>Subtitle</b>	
<b>Edition</b>	
<b>Publisher</b>	Blackwells
<b>ISBN</b>	9780632058273

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## Notes

The module contains elements central to the role of a construction professional involved in providing cost advice to clients during the early design stages of a project. The module will consider the evolution of designs and ascertain and evaluate the often competing clients objectives in terms of risks, morphology, energy and environmental impact as well as initial and life cycle costs. The module provides a review of the techniques currently available to model cost information and provides an assessment of their usefulness.