

Liverpool John Moores University

Title: ECONOMICS OF DESIGN
Status: Definitive
Code: **6062UG** (102215)
Version Start Date: 01-08-2011

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

Team	Leader
Wilfred Matipa	Y

Academic Level: FHEQ6
Credit Value: 12.00
Total Delivered Hours: 17.00
Total Learning Hours: 120
Private Study: 103

Delivery Options

Course typically offered: Semester 2

Component	Contact Hours
Online	12.000
Seminar	3.000

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

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

Subtitle	
Edition	8th Edition
Publisher	Blackwell Publishing
ISBN	978140513070-7

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

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

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.