

Liverpool John Moores University

Title: DESIGN TECHNOLOGY
Status: Definitive
Code: **5113BEUG** (118147)
Version Start Date: 01-08-2013

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

Team	Leader
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Academic Level: FHEQ5 **Credit Value:** 24.00 **Total Delivered Hours:** 72.00
Total Learning Hours: 240 **Private Study:** 168

Delivery Options

Course typically offered: Standard Year Long

Component	Contact Hours
Lecture	24.000
Tutorial	24.000
Workshop	24.000

Grading Basis: 40 %

Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Report	AS1		25.0	
Report	AS2		25.0	
Report	AS3		50.0	

Aims

*To provide knowledge, awareness and application of key issues on statutory processes and practices that affect and control construction and development.
To evaluate the process of specifying materials and components using various*

sources of information and evaluating their implications with regard to performance and quality.

To provide the student with appropriate skills to produce a specification to industry standard practice.

Learning Outcomes

After completing the module the student should be able to:

- 1 Understand the purpose and principles of town planning with regard to the control of development.
- 2 Critically understand the planning application process from the perspective of the developer.
- 3 Critically understand and analyse the process and procedures that a Local Planning Authority must undertake in determining Planning applications.
- 4 Critically analyse the process and procedures that a Local Authority must undertake in determining Building Regulation applications and how the regulations are enforced.
- 5 Analyse the Building Regulations and how they apply to the design and detailing of buildings.
- 6 Evaluate various methods for specifying materials and construction processes for building works to achieve quality in design.
- 7 Specify construction works using industry standards and discuss implications for quality, environmental impact and constructability.
- 8 Evaluate causes of common building defects and failures and discuss remedial and preventative measures.

Learning Outcomes of Assessments

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

PLANNING REPORT	1	2	3
BUILDING CONTROL REPORT	4	5	
SPECIFICATION REPORT	6	7	8

Outline Syllabus

Town Planning in the UK.

Overview of planning, planning law and development control

National planning policy and guidance.

Development plans and local planning policy.

Submitting a planning application; planning application forms and supporting documentation including Design and Access Statements.

Processes and procedures in determining a planning application.

Planning conditions; agreements; obligations and gain.

Planning enforcement; appeals and inquiries.

Building Regulations

Building Regulations, practice and procedures
Building Control applications and fees..
The Approved Documents from A to N.
The practical application of the Building Regulations to non domestic projects. In particular Part B Fire Safety , Part L and Environmental Assessment; Part L; SAP calculations ; SBEM
Part M ; Disability Discrimination Act
The Party Wall Act

Specification of materials and components
Prescriptive technical specifications
Technical performance specifications and requirements
British Standards and Codes of Practice, British Board of Agrément Certificates, trade associations, use of trade literature , objective analysis of alternatives
Quality control of materials/items on and off site
Use of the National Building Specification for specification of construction works
Common Building Defects, remedial measures, preventative measures

Learning Activities

Lectures, tutorials

References

Course Material	Book
Author	Emmitt S
Publishing Year	2002
Title	Architectural Technology
Subtitle	
Edition	
Publisher	Blackwell Science
ISBN	063206403x

Course Material	Book
Author	Hoboken, N.J
Publishing Year	2009
Title	The Integrative design Guide to Green Building: Redefining the Practice of Sustainability
Subtitle	
Edition	
Publisher	Wiley
ISBN	9780470181102

Course Material	Book
Author	Emmitt, S
Publishing Year	2008
Title	Specifying Building A Design Management perspective

Subtitle	
Edition	
Publisher	Butterworth-Heinemann
ISBN	9780750684507

Course Material	Book
Author	Anderson, J
Publishing Year	2009
Title	The Green Guide to specification; an environmental profiling system for building materials and components
Subtitle	
Edition	
Publisher	Wiley-Blackwell
ISBN	9781405119610

Course Material	Book
Author	Moore, V
Publishing Year	2005
Title	'A Practical Approach to Planning Law'
Subtitle	
Edition	
Publisher	Blackstone Press
ISBN	0199272794

Course Material	Book
Author	Polley, S
Publishing Year	2009
Title	Understanding the Building Regulations
Subtitle	
Edition	4th
Publisher	Taylor & Francis
ISBN	9780415452724

Course Material	Book
Author	Newton , P, Hampson K and Drogemuller R
Publishing Year	2009
Title	Technology , Design and Process Innovation in the Built Environment
Subtitle	
Edition	
Publisher	Abingdon : Spon Press
ISBN	9780415462884

Course Material	Website
Author	
Publishing Year	2010
Title	www.planningportal.gov.uk

Subtitle	
Edition	
Publisher	
ISBN	

Notes

This module will provide students with awareness of the statutory processes and practices that affect and control construction and development. It also discusses the purpose and importance of specifications within the construction industry and provides the students with appropriate skills to write a building specification.