

Liverpool John Moores University

Title: Approaches to Design Practice
Status: Definitive
Code: **4002PD** (117703)
Version Start Date: 01-08-2011

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

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Academic Level: FHEQ4 **Credit Value:** 24.00 **Total Delivered Hours:** 72.00
Total Learning Hours: 240 **Private Study:** 168

Delivery Options

Course typically offered: Semester 1

Component	Contact Hours
Lecture	6.000
Practical	24.000
Seminar	9.000
Tutorial	9.000
Workshop	24.000

Grading Basis: 40 %

Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Report	AS1	Materials and Production Report	30.0	
Artefacts	AS2	Design Project	70.0	

Aims

- 1: To introduce students to the issues influencing design decisions in practice, including market considerations and production types
- 2: To enable students to understand the processes by which a conceptual idea can be realized as a production design
- 3: To develop students understanding of production and manufacturing processes, technical and cost parameters
- 4: To introduce an awareness of the environmental consequences of material choice and manufacturing process

Learning Outcomes

After completing the module the student should be able to:

- 1 1 Demonstrate an awareness of influences upon design decisions including market and production considerations.
- 2 2 Communicate their design proposals with respect to the intended production methods.
- 3 3 Demonstrate an understanding of material and process selection with regard to technical and cost parameters
- 4 4 Demonstrate an awareness of material choice and manufacturing process with regard to environmental impact

Learning Outcomes of Assessments

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

Report	1	4
Artefact	2	3

Outline Syllabus

Production issues, technical and cost influences
Materials and process selection
Marketing influences
Research and sourcing of information
Report writing
Design process
Digital modelling processes
Working to a brief

Learning Activities

Students will engage in the research of predetermined production methods or materials which will be presented to the cohort which and form part of a shared knowledge base.

The Students should undertake design projects that will allow an exploration of manufacturing and production issues that are part of a design brief.

The students will follow and demonstrate the design process, which should include 2D and 3D development and virtual or physical modelling of their final design proposal.

References

Course Material	Book
Author	Ashby, M. and Johnson, K.
Publishing Year	2009
Title	Materials and Design
Subtitle	The Art and Science of Material Selection in Product Design
Edition	2nd ed
Publisher	Butterworth-Heinemann, Oxford
ISBN	

Course Material	Book
Author	Goslett, D.
Publishing Year	1984
Title	Professional Practice of Design
Subtitle	
Edition	
Publisher	HarperCollins, New York
ISBN	

Course Material	Book
Author	Lefteri, C.
Publishing Year	2007
Title	Making It
Subtitle	Manufacturing Techniques for Product Design
Edition	
Publisher	Laurence King Publishing, London
ISBN	

Course Material	Book
Author	Lefteri, C.
Publishing Year	2005
Title	Wood
Subtitle	Materials for Inspirational Design
Edition	
Publisher	Rotovision, Hove
ISBN	

Course Material	Book
Author	Lefteri, C.

Publishing Year	2005
Title	Plastic
Subtitle	Materials for Inspirational Design
Edition	
Publisher	Rotovision, Hove
ISBN	

Course Material	Book
Author	Lefteri, C.
Publishing Year	2005
Title	Ceramics
Subtitle	Materials for Inspirational Design
Edition	
Publisher	Rotovision, Hove
ISBN	

Course Material	Book
Author	Lefteri, C.
Publishing Year	2005
Title	Metals
Subtitle	Materials for Inspirational Design
Edition	
Publisher	Rotovision, Hove
ISBN	

Course Material	Book
Author	Lefteri, C.
Publishing Year	2005
Title	Glass
Subtitle	Materials for Inspirational Design
Edition	
Publisher	Rotovision, Hove
ISBN	

Course Material	Book
Author	Lefteri, C.
Publishing Year	2006
Title	Plastics 2
Subtitle	Materials for Inspirational Design
Edition	
Publisher	Rotovision, Hove
ISBN	

Course Material	Book
Author	Lesko, J.
Publishing Year	2008
Title	Industrial Design

Subtitle	Materials and Manufacturing Guide
Edition	
Publisher	John Wiley and Sons, New York
ISBN	

Course Material	Book
Author	Thompson, R.
Publishing Year	2007
Title	Manufacturing Processes for Design Professionals
Subtitle	
Edition	
Publisher	Thames and Hudson, London
ISBN	

Notes

This is an introduction to the more common manufacturing and production methods involved in product design practice. It is intended to expose students to a variety of production processes and the influence this can have on an intended design outcome or solution.

At level one, the emphasis is on exploration and identification, rather than specialist knowledge.