

Liverpool John Moores University

Title: DESIGN FOR PRODUCTION
Status: Definitive
Code: **4012PD** (110039)
Version Start Date: 01-08-2011

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

Team	Leader
Jon Spruce	Y

Academic Level: FHEQ4
Credit Value: 36.00
Total Delivered Hours: 110.00
Total Learning Hours: 360
Private Study: 250

Delivery Options

Course typically offered: Semester 2

Component	Contact Hours
Lecture	10.000
Practical	40.000
Seminar	30.000
Workshop	30.000

Grading Basis: 40 %

Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Report	AS1	Coursework by submission of a report with two and three dimensional sketch work, physical models, and supporting evidence.	100.0	

Aims

To introduce students to the issues influencing design decisions for various categories of production.

To enable students to understand the processes by which a conceptual idea can be realized as a production design.

To develop students' understanding of production processes, technical and cost parameters for different categories of production.

Learning Outcomes

After completing the module the student should be able to:

- 1 Demonstrate an understanding of the more common production methods, processes and materials.
- 2 Demonstrate their grasp of the limitations that production requirements will have on a design.
- 3 Demonstrate their ability to translate a design brief into a viable commission-led production solution.
- 4 Demonstrate their ability to translate a design brief into a viable design-led production solution.
- 5 Show an understanding of the commercial, marketing and production issues surrounding the design process.

Learning Outcomes of Assessments

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

REPORT	1	2	3	4	5
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Outline Syllabus

*Lectures on production issues, technical, cost and marketing influences.
Guidance on research and sourcing of information and report generating.
Methodical design processes.
Lectures, demonstrations of digital modeling processes.
Working to a brief, negotiating a brief, writing a brief.*

Learning Activities

Students will undertake research into appropriate production processes for commissioned (high production volume) and design led (low production volume) products and produce a brief report summarizing their findings. The format of the report can be negotiated. Students will undertake two projects for the two different production categories, i.e.: design to a brief for mass production and self-generated designer led batch production. The self-generated project will be negotiated with the module leader. For both projects students will follow a demonstrable design process including two and three dimensional sketch development and digital and physical modeling of a final design proposal. Students will support or justify their design solutions with appropriate technical and marketing data.

References

Course Material	Book
Author	Boothroyd, G. et al
Publishing Year	2001
Title	'Product Design for Assembly and Manufacture,
Subtitle	
Edition	
Publisher	Marcel Dekker
ISBN	

Course Material	Book
Author	International Ergonomics Association. Helander, M and NAGAMACHI, M (Eds)
Publishing Year	1992
Title	'Design for Manufacturability'
Subtitle	
Edition	
Publisher	Taylor and Francis.
ISBN	

Notes

This will be the student's introduction to the business of designing but, in addition it is intended to assist students in understanding different approaches to design, both working to an externally originated brief and working to one's own brief in response to an identified market opportunity. At level one the emphasis should be more on exploration than on finesse although issues of quality should be discussed.