

Liverpool John Moores University

Title: Sustainable Materials
Status: Definitive
Code: **4502IDS** (118304)
Version Start Date: 01-08-2011

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

Team	Leader
Jon Moorhouse	Y

Academic Level: FHEQ4 **Credit Value:** 24.00 **Total Delivered Hours:** 76.00

Total Learning Hours: 240 **Private Study:** 164

Delivery Options

Course typically offered: Semester 1

Component	Contact Hours
Lecture	8.000
Off Site	4.000
Practical	61.000
Seminar	2.000
Tutorial	1.000

Grading Basis: 40 %

Assessment Details

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

Aims

To promote an awareness of material culture and develop an understanding of aesthetics and 'good' design by exploring related technologies and processes.

To promote an understanding of materials and how their application has evolved

over the years and the reasons why.

To develop organisational and time management skills when planning and working on design briefs.

To practice oral and visual communication through the presentation of 2D and 3D design work.

Learning Outcomes

After completing the module the student should be able to:

- 1 Demonstrate a broad understanding of the various applications of materials and related technologies and processes within interior design by looking at case studies.
- 2 Demonstrate a clear understanding of a range of materials, their applications, how they have changed over the years and the implications to the environment.
- 3 Produce design work which is well researched and where an effective plan has been implemented.
- 4 Present and discuss 2D and 3D design work in an appropriate manner and evaluate own progress.

Learning Outcomes of Assessments

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

Report	1	
Presentation	2	
Artefact	3	4

Outline Syllabus

The module will focus on giving students a broad understanding on the principles of sustainable materials and associated technologies related to interior design. It will include a visit to a sustainable building, the findings of which will be recorded visually and contextually. Materials will be examined in detail, to give the students an awareness of traditional materials and the way materials have changed over the years and the reasons why. Aspects of sustainability will be explored and applied to design work such as climate change and its implications on materials, reuse of materials, responsibly sourced materials, embodied energy and design for long life. Students will produce design work in response to a design brief applying knowledge gained in materials. This would be a small scale design for an area within the building examined, and could include designing a piece of furniture. Orthographic drawing will be taught as a method of communicating design proposals. Presentation skills will be practiced both visually and orally when presenting students own work and commenting on the work of others.

Learning Activities

A number of taught sessions with activities which explore the capabilities and limitations of materials and associated technologies related to interior design. The module will encourage a professional approach to design work, by inclusion of a 'live' building as part of this project. Research skills and techniques will be practiced and developed whilst gathering supporting material. Student presentations will form a part of a number of activities, which encourage the sharing, and discussion of project work.

References

Course Material	Book
Author	Lefteri, C.
Publishing Year	2005
Title	Wood, Plastic, Metals
Subtitle	Materials for Inspiration
Edition	
Publisher	Rotovision
ISBN	

Course Material	Book
Author	Plunkett, D.
Publishing Year	2009
Title	Drawing for Interior Design
Subtitle	
Edition	
Publisher	Lawrence King
ISBN	

Course Material	Book
Author	Ching, F. and Bingeli, C.
Publishing Year	
Title	Interior Design Illustrated
Subtitle	
Edition	
Publisher	Wiley
ISBN	

Course Material	Book
Author	Peters, S.
Publishing Year	2011
Title	Material Revolution
Subtitle	Sustainable Multi-Purpose Materials for Design
Edition	

Publisher	Birkhauser
ISBN	

Course Material	Book
Author	Wilhide, E.
Publishing Year	2009
Title	ECO A source book of Modern Materials
Subtitle	
Edition	
Publisher	Quadrille Publishing
ISBN	

Course Material	Book
Author	Turrent, D.
Publishing Year	2007
Title	Sustainable Architecture
Subtitle	
Edition	
Publisher	RIBA
ISBN	

Course Material	Website
Author	
Publishing Year	
Title	www.extranet.kingston.ac.uk/rematerialize
Subtitle	a resource at Kingston University for Eco-Smart Materials, on-line and physical resources.
Edition	
Publisher	
ISBN	

Course Material	Website
Author	
Publishing Year	
Title	www.treehugger.com/green-basics
Subtitle	
Edition	
Publisher	
ISBN	

Course Material	Website
Author	
Publishing Year	
Title	www.woodforgood.com/resource_centre.html
Subtitle	
Edition	
Publisher	

ISBN	
-------------	--

Course Material	Website
Author	
Publishing Year	
Title	www.fsc.org/resourcecentre.html
Subtitle	
Edition	
Publisher	
ISBN	

Notes

This module comprises a range of taught sessions exploring application of sustainable materials and technologies within the built environment. Students will be expected to actively participate in these sessions and produce independent presentations which demonstrate an understanding of the subject. Written and communication skills will be developed through the presentation of design work and evaluation of work.

Skills:

- Research
- Presentation on research of chosen material (10 min Powerpoint)
- Design development
- Orthographic drawing
- Basic SketchUp model
- Evaluation