

Liverpool John Moores University

Title: Human Factors
Status: Definitive
Code: **4002SD** (119292)
Version Start Date: 01-08-2012

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:** 24.00 **Total Delivered Hours:** 80.00

Total Learning Hours: 240 **Private Study:** 160

Delivery Options

Course typically offered: Standard Year Long

Component	Contact Hours
Lecture	4.000
Practical	40.000
Seminar	4.000
Tutorial	2.000
Workshop	30.000

Grading Basis: 40 %

Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Artefacts	AS1		70.0	
Report	AS2		30.0	

Aims

This module will introduce the principles of human factors applied within the spatial design process, developing students' understanding of the relationship between human factors and the organisation of basic spatial configurations.

Learning Outcomes

After completing the module the student should be able to:

- 1 Demonstrate the application of ergonomic and anthropometric data within design concepts.
- 2 Evidence an awareness of environmental factors relative to human considerations.
- 3 Communicate design ideas utilising 2-dimensional drawing techniques, including the use of measured plans and elevations.

Learning Outcomes of Assessments

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

design project	1	3
design specification report	2	3

Outline Syllabus

Introduce notions of design approaches and underpinning parameters of human

Factors including:

Task analysis

Primary research methods

Analysing problems

Ergonomics and Anthropometrics

Material choices and selection

Recording and presenting data (orthographic drawing)

Environmental energies

Design specification

Learning Activities

As a key part of the delivery and learning within this module students will undertake human centred primary research, exploring practical issues and identifying opportunities for problem solving. Establishing design parameters relating to human needs and functional requirements students will then develop practical solutions to test and critique. Group working is an integral part of this module's learning activities.

References

Course Material	Book
Author	THACKARA, J
Publishing Year	2005
Title	'In the Bubble' Designing in a Complex World

Subtitle	
Edition	MIT Press
Publisher	
ISBN	

Course Material	Book
Author	LIDWELL, W & HOLDEN, K & BUTLER
Publishing Year	2003
Title	Universal Principles in Design
Subtitle	
Edition	Rockport
Publisher	
ISBN	

Course Material	Book
Author	TILLEY, A R
Publishing Year	2002
Title	The Measure of Man and Woman: Human Factors in Design
Subtitle	
Edition	Wiley, New York
Publisher	
ISBN	

Course Material	Book
Author	PHEASANT, S
Publishing Year	1986
Title	Bodyspace: Anthropometry, Ergonomics and Design
Subtitle	
Edition	Taylor and Francis
Publisher	
ISBN	

Course Material	Website
Author	
Publishing Year	
Title	Mintel
Subtitle	
Edition	
Publisher	
ISBN	

Course Material	Website
Author	
Publishing Year	
Title	Keynotes
Subtitle	

Edition	
Publisher	
ISBN	

Notes

Project work in this module will include the design of an ultra compact living space for a client - the microenvironment is developed individually at small scale and later produced in groups at full scale.