

Course Code:

EXT5154

Academic Session:

2017/18

1. Course Title:

Human Factors P5 (EXT5154)

2. Version

1.1

Date of Production/ Revision

2017/18

Approval Date

30 August 17 PACAAG

3. Level:

5

4. Credits:

10

5. Lead School/Board of Studies:

School of Design

6. Course Contact:

Craig Whittet &amp; Aileen Mhor-Biagi

7. Course Aims:

To build on and enhance the knowledge and skill base acquired in the normal studio activities of Levels 1-4 and to equip the students with the knowledge, skills and experience necessary to apply a variety of human factors tools, methods and considerations, in depth, in their Human Factors Report.

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8. Intended Learning Outcomes of Course:

Students will be reviewed and assessed on the work, as presented in the project report, that evidences the level of engagement with and the quality of achievement of the intended learning outcomes for Human Factors 5M listed here. In particular, by the end of this course should be able to:

- Understanding the issues and areas of human factors crucial to successful user-centred design
- Confidently using human factors methods and tools as a vital part of product research,

specification, development and refinement

- Understanding current standard sources of human factors data
- Clearly demonstrating the use of human factors considerations in design project work through an iterative process
- Understanding and applying anthropometrics software packages
- Developing skills in user research methodologies
- Integrating human factors aspects alongside other engineering and design issues to create a successful project resolution.

#### 9. Indicative Content:

The Human Factors series is intended to complement project work. Project work will include: human factors considerations that relate to the course subject content application and integration of content into design project activities

##### Course Syllabus:

The allocation of specific staff for this course may vary from year to year depending on the availability of specialist speakers, although the content remains constant.

The following sessions, given by guest speakers drawn from academia, industry and consultancy, have been chosen to show a wide range of considerations, and to encompass physical, psychological, social and cultural issues relating to products, tasks and environments. The series includes:

- Overview – frameworks, methodologies, reference sources
- Case studies and aspects of the following:
  - Skeletal and muscular systems, physiology
  - Psychology, cognition and perception
  - Social and cultural issues
  - Usability and user research methods
  - Task analysis
  - Organisational and environmental factors
  - Health and safety
  - British, European and World standards
  - Software and software systems
  - Interface, interaction and simulation
  - Demographics and inclusive human factors
  - The place and role of human factors in the design process
  - General review sessions

#### 10. Description of Summative Assessment:

The main aspects of Summative assessment are: written assignments, practical projects, presentations

##### 10.1 Please describe the Summative Assessment arrangements:

The completed Human Factors outcome will form the basis for the summative assessment. The final

grade will submitted to the University of Glasgow, School of Engineering Exam Board.

11. Formative Assessment:

Student and peer feedback is offered throughout project with detailed feedback provided after interim presentation. The main areas of student engagement are: seminars, critiques, workshops, tutorials

11.1 Please describe the Formative Assessment arrangements:

After most assessment events, studio staff provide feedback. The purpose of this is to help students understand areas of strength and weakness and provide advice for future direction or further learning.

Feedback for Human Factors will consist of verbal comments made during project critique or presentation, or one-to-one in the studio. Main assessment events will be followed-up by written feedback, accompanied by a tutorial discussion with studio staff.

12. Collaborative:

Yes

No

12.1 Teaching Institutions:

Glasgow School of Art

13. Requirements of Entry:

14. Co-requisites:

None

15. Associated Programmes:

Product Design Engineering

16. When Taught:

Semester 1

17. Timetable:

Tuesday 10:00 – 13:00

18. Available to Visiting Students: Can this course be taken by visiting students? Please tick either yes or no.

Yes

No

19. Distance Learning:

Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
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20. Placement:	
Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>

21. Learning and Teaching Methods:		
Method	Formal Contact Hours	Notional Learning Hours (Including formal contact hours)
Lecture	8	10
Studio		40
Seminar/Presentation		
Tutorial	2	5
Workshop		
Laboratory work		5
Project work		
Professional Practice		
E-Learning / Distance Learning		
Placement		
Examination		
Essay		
Private Study	Not Applicable	30
Other (please specify below)	3	10
<b>TOTAL</b>	<b>13</b>	<b>100</b>

22. Description of "Other" Teaching and Learning Methods:
Group Critique

23. Additional Relevant Information:

24. Indicative Bibliography:	
Buxton, B. (2007) <i>Sketching User Experiences: getting the design right and the right design</i> . Morgan Kaufman,	
Dreyfuss, Henry	<i>Humanscale</i>
Norman Norman	<i>The Psychology of Everyday Things</i>
Moggridge, B (2007) <i>Designing Interactions</i> , The MIT Press, <a href="http://mitpress.mit.edu">http://mitpress.mit.edu</a> , ISBN 0-262-13474-8	
<a href="http://www.designinginteractions.com">http://www.designinginteractions.com</a>	
Pheasant	<i>Bodyspace – anthropometrics, ergonomics and design</i>

Sanders & McCormick *Human Factors in Engineering and Design*

Wright, I.C. (1998) *Design Methods in Engineering and Product Design*, McGraw-Hill, London

*What Things Mean*, Harvard Business Press, Boston, Massachusetts. ISBN 978-1-4221-2482-6

San Francisco. ISBN -13 978-0-12-374037-3

Human Factors Guest lectures will also recommend text based on student project and focus

Date of production / revision	April 2017
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