

Course Code:

PPDE102

Session:

2017/18

1. Course Title:

PPDE102 - PDE MSc Introduction Project

2. Version

1.1

Date of Production/Revision:

2016/17

Approval Date

30 August 2017 PACAAG

3. Level:

SCQF 11

4. Credits:

15

5. Lead School/Board of Studies:

School of Design

6. Course Contact:Craig Whittet
Stuart Bailey**7. Course Aims:****Aims**

The course aims to:

- develop, at a fundamental level, confidence in: - the learning approach; the process, the product, presentation and representation skills; interactive and group skills; analytical, problem-solving, synthetic, evaluative and applicative skills; design processes, methods and tools - appropriate for study in Product Design Engineering.
- provide a diagnostic experience for students to establish an achievable learning plan for the course.
- develop a critical, reflective and practical approach to the Design Engineering.
- develop a sound understanding and safe application of workshop practice.

8. Intended Learning Outcomes of Course:

By the end of this course students will be able to:

- Understand the issues and areas of Product Design Engineering crucial to successful product design
- Confidently use Product Design Engineering methods and tools as a vital part of product research, specification, development and refinement
- Understand current standard sources of design data
- Clearly demonstrate the use of design evaluation in design project work through an iterative process
- Understand and apply appropriate software packages
- Develop skills in user research methodologies
- Integrate design management aspects alongside other engineering and design issues to create a successful project resolution.
- Application of Computer Aided Design and Prototyping

9. Indicative Content:

- Overview – frameworks, methodologies, reference sources, Case studies
- Design Process
- Design for Manufacture
- Design for Market
- Computer Aided Design and Prototyping
- Evaluation
- Presentation Techniques
- Customer Expectations
- Design Management and Organisation
- Health and safety and workshop practice
- Orthographic Drawing
- Software and file formats

10. Description of Summative Assessment:

No.	Assessment Method	Description of Assessment Method	Weight %	Submission week (assignments) or length (exam)
1	Course Work (studio project documentation)	Project portfolio: research, concept development, refinement and presentation	100	End of stage 1

10.1 Please describe the Summative Assessment arrangements:

The completed PDE MSc Introduction Project assignment and project outcomes are the basis for the

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summative assessment. Students are assessed on the work, as presented in their project documentation that evidences the level of engagement with and the quality of achievement of the intended learning outcomes for this course.

The final grade will be submitted to the Glasgow School of Art and University of Glasgow, School of Engineering Exam Board. Grades are ratified by the Glasgow School of Art Exam Board

11. Formative Assessment:

Student and peer feedback is offered throughout the 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:

Formative assessment is primarily an interim student presentation event, 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 this project will consist of a verbal comments made during studio 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:

4T

13. Requirements of Entry:

None

14. Co-requisites:

None

15. Associated Programmes:

MSc Product Design Engineering

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16. When Taught:

Semester 1/Stage1

17. Timetable:

Days of delivery depend on semester arrangements, PDE MSc Introduction Project is scheduled to take place on Thursday and Fridays

18. Available to Visiting Students:Yes No **19. Distance Learning:**Yes No **20. Placement:**Yes No **21. Learning and Teaching Methods:**

Method	Formal Contact Hours	Notional Learning Hours (Including formal contact hours)
Lecture		
Studio	15	100
Seminar/Presentation	5	5
Tutorial	2	5
Workshop	5	15
Laboratory work		
Project work		15
Professional Practice		
E-Learning / Distance Learning		
Placement		
Examination		
Essay		
Private Study	Not Applicable	
Other (please specify below)	3	10
TOTAL	30	150

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

Industrial and Site Visits

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23. Additional Relevant Information:

This course introduces students taking the taught postgraduate programme in Product Design Engineering to a range of core studio and workshop skills that have been selected to provide a sound basis to facilitate a response to a set project brief and Product Design specification.

24. Indicative Bibliography:

- Buxton, B. (2007) Sketching User Experiences: getting the design right and the right design . Morgan Kaufman,
- Eissen, K & Steur, R. (2007) Sketching: drawing techniques for product designers , BIS Publishers, Amsterdam. ISBN 978-906-369-171-4, <http://www.bispublishers.nl>
- Olofsson, E & Sjöln, K. (2005) Design Sketching , KEEOS Design Books AB, ISBN 91-631-7394-8, <http://www.designsketching.com>
- Pugh, S. (1991) Total design: Integrated methods for Successful Product Engineering , Addison-Wesley Publishers Ltd, Wokingham, UK.
- Telier, A {et al}. (2011) Design Things , The MIT Press, Cambridge Massachusetts, USA. ISBN 978-0-262-01627-8
- Ulrich K.T. and Eppinger, S. (2000) Product Design and Development , 2nd Edition, McGraw Hill, USA.

- Core 77 - a gathering point for designers - <http://www.core77.com>
- Designboom magazine - <http://www.designboom.com>
- Designboost: Sharing Design Knowledge - <http://www.designboost.se/>
- The Engineer - technoloy and innovation - <http://www.theengineer.co.uk>
- Trendwatching consumer trend briefings- <http://www.trendwatching.com/briefing/>
- Springwise business ideas - <http://springwise.com>
- Scientific American - <http://www.scientificamerican.com>