

Statement of participation

Farzam Rezayati Ajibisheh

has completed the free course including any mandatory tests for:

Design

This 28-hour free course looked at the process of design, its complexities and how designers operate. It also discussed what comprises innovation.

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www.open.edu/openlearn

This statement does not imply the award of credit points nor the conferment of a University Qualification.
This statement confirms that this free course and all mandatory tests were passed by the learner.

Please go to the course on OpenLearn for full details:

<https://www.open.edu/openlearn/science-maths-technology/design-innovation/design/content-section-0>

COURSE CODE: T173_1

Design

<https://www.open.edu/openlearn/science-maths-technology/design-innovation/design/content-section-0>

Course summary

This free course looks at the process of design, from assessing the complexity of design as an activity to exposing the difficulty in making general conclusions about how designers work. You will be able to identify innovation in a wide variety of designed objects and evaluate the impact of this innovation.

Learning outcomes

By completing this course, the learner should be able to:

- recognise that functional artefacts have had input from a designer, with greater and lesser degrees of engineering input
- identify that engineering designers work within constraints of finance, materials properties, desired functionality, human factors, etc.
- understand that design exploits models of the product being designed, whether those models are physical mock-ups, computer-based models, or mathematical models which explore an element of the product's performance
- understand that there is rarely a unique solution to any design problem. Part of the skill of a designer is in finding a problem–solution pair, and the best compromise
- understand how models of the design process are formulated, and how they can be applied to understand the development of a particular product or product family.

Completed study

The learner has completed the following:

Section 1

Design and designing

Section 2

Design and innovation 1 the plastic kettle

Section 3

Models of the design process

Section 4

Conceptual design

Section 5

Concept to prototype

Section 6

Design and innovation 3 the Brompton folding bicycle

Section 7

Conclusions