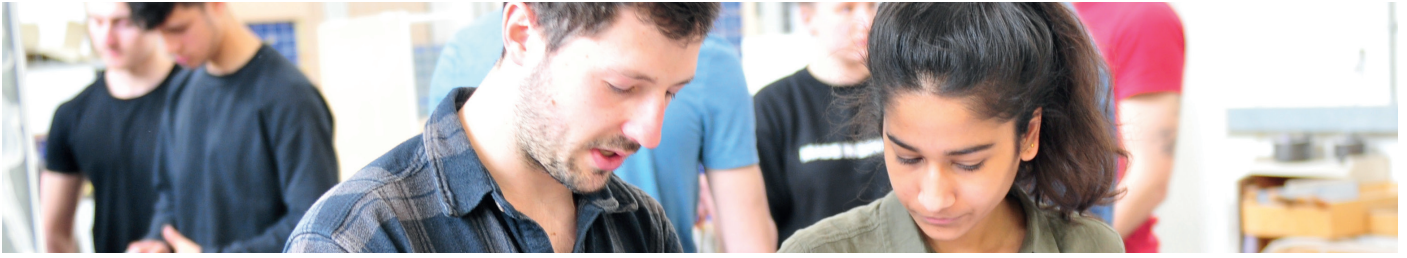




BSI guest lectures at Brunel University London



Academic and standards-maker

I'm the Programme Director for the BSc Product Design and BSc Product Design Engineering courses at Brunel University London. I'm also the Director for Postgraduate Studies, responsible for the development, delivery and quality of my department's research degree provision.

My teaching responsibilities also include the Design Process module, through which students explore the entire product development cycle, from capturing user needs, developing solutions, and understanding the relevant legislative and standards requirements, through to producing physical prototypes and drafting technical drawings.

Through my research interest in additive manufacturing technologies (3D Printing), I'm also involved in national and international standards development in the areas of additive manufacturing, including the chairing and convening of standards committees. The role of a member of a standards committee is to contribute one's expertise and experience to the committee's standardization programme, and to represent the committee's interests and concerns of the organization.

Importance of standards lectures

I believe that it's important for engineering students to receive lectures on the role of standards, and to raise their awareness of standards generally. Not only to help them in their undergraduate or postgraduate studies, but also for their long-term professional careers. Across our three undergraduate programmes - BA Industrial Design and Technology, BSc Product Design and BSc Product Design Engineering – students gain a general appreciation of standards through a variety of lectures and talks, providing them with a good preparation for their final year industrial placements or projects.

"I believe that it's important for engineering students to receive lectures on the role of standards"

BSI's annual guest lecture is a key feature of this approach. The lecture tends to cover three main standards closely related to our degree programmes: BS 8887 Design for manufacture, assembly, disassembly and end-of-life processing (MADE), BS 8888 Technical product documentation and specification, and BS 8889 Technical product

verification. The lectures have always been very well received by academics – and that has been certainly backed up by the highly positive feedback students have given.

Learning outcomes from BSI guest lectures

- The fundamentals of three-dimensional design and the fundamentals of technical definition of products
- An overview of relevant British Standards in product design (BS 8888)
- Manual 2D drafting and 2D sketch modelling
- The use of appropriate software to create 3D digital models
- Generating production data in 3D and 2D and to produce and comprehend basic technical drawings
- Producing renderings that will aid in the communication of visual information using appropriate software

Accessing standards documents

To support the lectures and talks, students across all the degree programmes are encouraged to use BSOL (British Standards Online) - to which Brunel University London subscribes - an extremely useful resource. Through BSOL, students can access at the comfort of their fingertips national and international standards, to use in their studies and research projects.



Learn more at: www.brunel.ac.uk/design



Dr Eujin Pei

Brunel University London

Programme Director, BSc Product Design and BSc Product Design Engineering

Director for Postgraduate Studies

Chair, BSI/AMT/8 Additive Manufacturing

Chair, ISO/TC261/WG4 Additive Manufacturing Data and Design

Chair, ISO/TC261/JG67 Functionally Graded Additive Manufacturing

About BSI Education

Universities make a significant contribution to standardization by teaching about standards, contributing academic research, and being standards-makers. BSI Education builds relationships and creates programmes with universities to help raise awareness of the benefits of standards to society and the economy and to encourage and increase participation in standards-making.



For more information visit bsigroup.com/education or contact education@bsigroup.com

bsi.

BSI Group
389 Chiswick High Road
London, W4 4AL
United Kingdom

T: 0208 996 6353

E: cservices@bsigroup.com
bsigroup.com/education

Opinions and views expressed are solely those of Dr Eujin Pei and do not express those of Brunel University London, BSI or ISO.