

STEP

STEM Research
Equality, Diversity and Inclusion

Workshop

DESIGN AND ANALYSIS OF EXPERIMENTS

 December 05, 2024  15h00 (Portugal)  Sala de Atos 1

Summary:

Experiments are commonly applied in the chemical and biological engineering areas to characterize and optimize reaction and separation processes and materials. Following a typical case study of an extraction process, the main steps involved in the design and analysis of an experiment will be applied: (1) problem's statement; (2) selection of factors, levels and ranges; (3) identification of the response variables; (4) choice of design; (5) performing the experiment; (6) statistical analysis and conclusions. Since it is a hands-on workshop, we advise participants to bring their computers.

Speakers: Clara Bento Vaz and Olga Ferreira

Clara Bento Vaz is a Coordinator Professor at the School of Technology and Management (ESTiG) of the Polytechnic Institute of Bragança (IPB), where she has taught since 1995. She has a PhD in Industrial Engineering and Management (2007) from the Faculty of Engineering of the University of Porto (FEUP), a master's degree in Computer Integrated Production (1999) from the University of Minho, and a degree in Management and Industrial Engineering (1995) from FEUP. She is an integrated member of the CeDRI- Research Centre in Digitalization and Intelligent Robotics at IPB. Her main research interests are modelling and simulation, optimization for decision support, and data analytics.

Olga Ferreira is a Coordinator Professor at ESTiG, IPB, where she has been teaching since 2004. Olga Ferreira graduated in Chemical Engineering at FEUP in 1998, where she also obtained her PhD in 2003. She is an integrated member of the Mountain Research Center (CIMO, IPB). Her main research interests are thermodynamic modelling and experimental measurements of phase equilibria to support the development of more sustainable separation and reaction processes.



Registration:



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