

Handbook of Research on Improving Engineering Education With the European Project Semester

Benedita Malheiro (Instituto Superior de Engenharia do Porto, Instituto Politécnico do Porto, Portugal) and Pedro Fuentes-Durá (Universitat Politècnica de València, Spain)

Description:

Engineering education aims to prepare engineering undergraduates for their future professional journey where they will be called on to solve challenges affecting individuals, companies, and society. The European Project Semester (EPS) exposes students to project- and challenge-based learning, paying special attention to international multidisciplinary teamwork, sustainable design, innovative thinking, and project management in order to develop a set of desired professional skills.

The **Handbook of Research on Improving Engineering Education With the European Project Semester** shares the best practices in engineering education through close examination of the EPS. It describes the adopted learning framework, analyzes how it contributes to the development of skills, reports on the types of challenges proposed to teams, and delivers a set of team-project cases from the network of providers. Covering topics such as engineering ethics, project management, and sustainable behavior, this book is essential to students in engineering, engineers, engineering educators, educational researchers, academic administration and faculty, and academicians.

ISBN: 9781668423097

Pages: 390

Copyright: 2022

Release Date: March, 2022

Hardcover: \$295.00

E-Book: \$295.00

**Hardcover +
E-Book:** \$355.00

Topics Covered:

Case Studies
Empathetic Engineering
Engineering Ethics
Human-Oriented Engineering
Professional Communication
Project Management

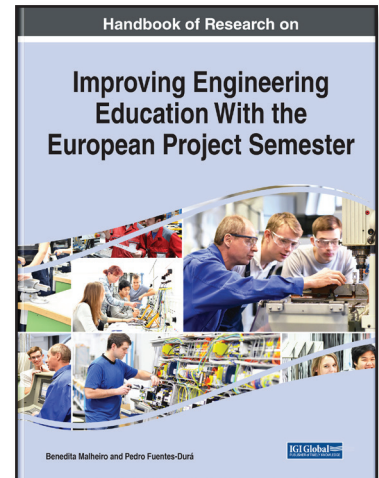
Project-Based Learning
Sustainable Behavior
Sustainable Engineering
Teambuilding
Technical Communication

Subject: Science & Engineering

Classification: Handbook of Research

Readership Level: Advanced-Academic Level
(Research Recommended)

Research Suitable for: Advanced Undergraduate Students; Graduate Students; Researchers; Academicians; Professionals; Practitioners



Order Information

Phone: 717-533-8845 x100

Toll Free: 1-866-342-6657

Fax: 717-533-8661 or 717-533-7115

Online Bookstore: www.igi-global.com

Mailing Address: 701 East Chocolate Avenue, Hershey, PA 17033, USA