

Cases on Engineering Management Education in Practice

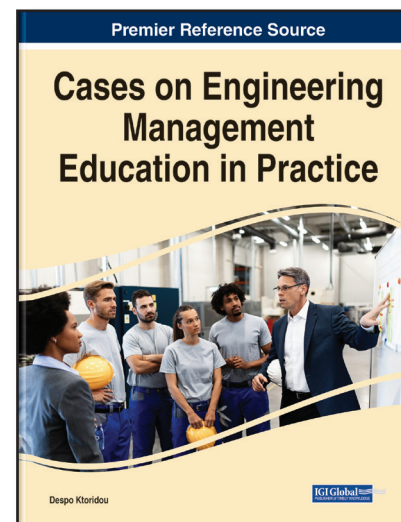
Part of the Advances in Higher Education and Professional Development Book Series

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Description:

The continuously growing list of technological, economic, and social challenges in today's world has made it imperative for higher educational institutions to equip students with the necessary knowledge, skills, and competences to seek employment and work in such a challenging global context. Specifically, within the engineering field, today's businesses now seek innovative engineer-managers who can design engineering systems and also handle projects/design and development; create strategic plans; handle financing; and recognize, engage with, and evaluate market opportunities. This has created a need for current research on effective engineering management education that focuses on technical people, projects, and organizations and prepares engineer and science graduates to become future industry leaders and be successful long term.

Cases on Engineering Management Education in Practice explores the crucial role of innovative and effective education that helps graduates develop critical leadership, negotiation, and communication skills in specific engineering disciplines. It presents the latest scholarly information on curriculum development, instructional design, and pedagogies of engineering management learning initiatives focusing on a range of topics that fall under the scope of engineering management education practices including management, marketing, finance, law, leadership, organizational behaviors, and human resources and statistics. While highlighting topics such as curriculum reform, student motivation and engagement, and innovative learning and education practices, this book is ideal for teachers, administrators, instructional designers, researchers, practitioners, stakeholders, academicians, and students who are interested in the management of engineering education practices.



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