Record Nr. UNINA9910410013203321 Autore Costello Gabriel J Titolo The Teaching of Design and Innovation: Principles and Practices //by Gabriel J. Costello Pubbl/distr/stampa Cham:,: Springer International Publishing:,: Imprint: Springer,, 2020 **ISBN** 3-030-41380-2 Edizione [1st ed. 2020.] Descrizione fisica 1 online resource (161 pages) Collana Contemporary Issues in Technology Education, , 2510-0327 745.2071 Disciplina Soggetti Technical education Learning Instruction Teaching Engineering/Technology Education Learning & Instruction Teaching and Teacher Education Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Nota di contenuto Preface -- Introduction -- The Principle of Phronesis -- The Principle of Responsibility -- The Principle of Theory -- The Principle of Reflection -- Cases of Teaching Design and Innovation -- Simulation-Action Learning (SAL) -- Contemporary Issues for Design and Innovation Studies -- Principles: Contemporary Questions for Design and Innovation. Sommario/riassunto This book is about design and innovation – what it is and how to teach it. The blending of design and innovation is having an increasing impact not only on the world of products and services but on a wide variety of disciplines such as information and communications technology (ICT), business, education and medicine. However, there is a lack of books on teaching the subject despite the significant growth of interest in both academia and the workplace. This book addresses this gap by outlining foundational principles for the teaching of design and innovation and by offering a practical process for implementing the

pedagogy in academic institutions and outside academia in the context

of continuing professional development (CPD). It describes two undergraduate case-studies that aimed to instill design and innovation competences in students of both engineering and business disciplines. The cases involved student teams working with incubation centre startups and multi-national subsidiaries. One of the aims of this book is to provide a resource for continuing professional development (CPD). Consequently, a third practitioner-based case study is presented as an example of research-informed teaching. In addition, the book proposes the concept of Simulation-Action Learning (SAL) as an enhancement of Project-Based Learning (PBL).