Handbook of Research on Creative Problem-Solving Skill Development in Higher Education

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

Chunfang Zhou (Aalborg University, Denmark)

Description:

Developing students’ creative problem-solving skills is paramount to today’s teachers, due to the exponentially growing demand for cognitive plasticity and critical thinking in the workforce. In today’s knowledge economy, workers must be able to participate in creative dialogue and complex problem-solving. This has prompted institutions of higher education to implement new pedagogical methods such as problem-based and case-based education.

The Handbook of Research on Creative Problem-Solving Skill Development in Higher Education is an essential, comprehensive collection of the newest research in higher education, creativity, problem solving, and pedagogical design. It provides the framework for further research opportunities in these dynamic, necessary fields. Features work regarding problem-oriented curriculum and its applications and challenges.

Readers:

This book is essential for policy makers, teachers, researchers, administrators, students of education.


Topics Covered:

- Competency-Based Training
- Creativity Techniques
- Critical Thinking
- Curriculum Design
- Instruction Methods
- Leadership of Students
- Learning Style
- Peer Learning
- Self-Directed Learning
- Student-centered Learning

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Chunfang Zhou, Ph.D., is an Assistant Professor in Department of Learning and Philosophy at Aalborg University, Denmark. Chunfang finished her Bachelor study (majoring in Industrial Automation and Information Science) and Master study (majoring in Philosophy of Science and Technology) in China. In 2012, she finished Ph.D. study on ‘Group Creativity Development in Engineering Education in Problem and Project-Based Learning (PBL) Environment in Denmark’. Since 2004, Chunfang has located her research in the area of Science, Technology and Society (STS), with a particular focus on creativity study and its relations to STEM education, group learning, organizational innovation, Problem-Based Learning (PBL), engineering and technology design, and Information Communication Technology (ICT). In 2007, her master thesis “Core Competence Development in Science and Technology Groups in Universities in Liaoning Province” was awarded as the “Best Master Thesis” by Northeastern University (NEU), China. In 2009, her published journal article “Research on the Research Group’s Structure and Creative Climate of Universities in Liaoning Province, China” won the “Annual Article Award” of Japan Creativity. In 2013, she was funded an individual research project ‘Fostering Creativity in Higher Education: A Comparative Study on Pedagogical Strategies of Learning by Projects between Denmark and China’, by Danish Research Council that leads her to recent contributions to cross-cultural studies on creativity in learning contexts.