Challenges of Project Based Learning (PBL) in Engineering Education

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Message from the Guest Editors

Over the past decades, Project-Based Learning (PBL) has proved to be a highly successful method for training engineers as accrediting agencies ask universities to prepare future professionals for a globalized world. As such, traditional teacher-centered educational approaches must be changed towards preparing students to face real engineering projects and using PBL is an effective strategy.

PBL is perfect for developing competencies such as lifelong learning, teamwork, communication, critical thinking and creativity, but several questions will arise from its implementation.

This Special Issue calls for papers to address these questions.

Topics of interest include:

1. Past, present and future of PBL in engineering education
2. Approaches to implement PBL in engineering education
3. Virtual or hybrid PBL in engineering education
4. PBL for professional development
5. Challenges and problems in PBL course design or implementation
6. Methods, tools and applications for assessing teamwork using PBL
7. PBL and engineering student engagement
8. Diversity and Inclusion through PBL in engineering education
9. Sustainability engineering education using PBL
10. Cross-disciplinary PBL

Special Issue

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Message from the Editor-in-Chief

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