



1st ONLINE TEACHING
ENHANCEMENT AND LEARNING
INNOVATION CARNIVAL (eTeLIC)
BOOK SERIES

SYNCHRONOUS@REAL-TIME
ONLINE INTERACTION





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SYNCHRONOUS@REAL-TIME **ONLINE INTERACTION**

Editors:
TAN TSE GUAN
FAIRULADILAN HAMADUN
SURIA BABA

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Transformative PdPc Approach in Civil Engineering Integrated Design Project for Enhancing Student Learning Experiences and Nurturing Future-Ready Graduates

Subject Area

Integrated Design Project (IDP)

Researchers

Abdul Razak Abdul Karim and Norazzlina M.Sa'don

Issues

Referring to the Engineering Programme Accreditation Standard (2020), the assessment process of engineering programmes is divided into initial and detailed assessments. An integrated design project (IDP) is one of the qualifying components in the initial assessment to be achieved before any engineering programmes can be eligible for the detailed assessment. The standard emphasized that the IDP is expected to involve complex engineering problems and activities that capable in culminating the fundamental knowledges and integrating all major civil engineering fields, which is delivered in the final year. In other words, the IDP shall be used as a final year course that able to impart the engineering applications using the knowledge of engineering science and principles. From this process of learning throughout the engineering study, the programme shall produce competent civil engineering graduates that equipped not only with good theoretical and technical knowledge, but also ready to practice to meet the demand of industry.

In order to prepare the graduates to face the real engineering practices, the teaching and learning philosophy of paradigm shift from conventional to transformative mode to enhance students' learning experience was elected. The teacher-centered approach that typically uses lecture to deliver course contents was replaced by the student-centered learning approach through coaching by both educators and professional practitioners. Instead of directly delivering the contents by teachers through lectures, the coaching approach was adopted to assist the students to identify the