

PAPER

Scenarios of Building Information Modelling-Based Design Education in Architecture Schools

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ABSTRACT

Due to the rapid development of computer technologies and trends in digital design, including building information modeling (BIM) and its diffusion into architectural design practice, it was necessary to introduce BIM into architectural curricula in order to prepare students for practice. This article therefore aims to identify scenarios for teaching BIM to architecture students worldwide. To achieve this objective, a thematic analysis of BIM teaching experiences in several selected academic institutions was conducted. The data studied included published articles and official university websites dealing with BIM teaching. A theoretical framework for BIM education was determined, comprising two aspects: pedagogical methods for BIM education and specifications for BIM courses in architecture programs. The document identified several scenarios for teaching BIM in multidisciplinary or architecture-specific courses. BIM teaching can be offered as part of a single course integrated with other courses, or as a separate course. It may be taught as part of related or unrelated courses. Related courses can be organized in parallel with an academic semester, or over several semesters. In addition, there are different types of input to project-based BIM teaching, such as a new design project, the results of a previous design course or an actual project. These scenarios can serve as a reference for universities wishing to integrate BIM into their programs.

KEYWORDS

architecture schools, building information modeling (BIM), BIM teaching scenarios, course integration, higher education

1 INTRODUCTION

Architectural design is one of the disciplines that has been positively influenced by computer technologies, laying the foundations for what is known as computer-aided architectural design (CAAD) [1]. Digital tools are no longer just representation tools, but have become essential elements of the design process [2], such as the use of CAD models with simulation programs for building energy performance [3]. The architectural design process has gradually become digital, particularly with the adoption of

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