

FOOTBRIDGE: A PROJECT TO IMPLEMENT MANAGEMENT FUNCTIONS AT AASTMT

ABSTRACT:

Recently, the construction industry has introduced fundamental changes towards the integration of functions performed during the different phases of the project. Design-build approach that integrates design and construction was a prominent example of such changes. Consequently, modifications were necessary in civil engineering education to prepare students to deal with the demands of the new environment. This paper documents a graduation project that offered students an opportunity to practice planning, design, procurement, and construction on a real-life project and deal with the problems of integrating these functions. The project is a steel footbridge of 10-meter span and 1.5-meter width. The bridge is located in the campus of the Arab Academy for Science Technology and Maritime Transport (AASTMT), Alexandria, Egypt. The project was accomplished by a group of five students with the participation of an industrial sponsor who provided the necessary funds to construct the bridge and the required expertise for fabrication and erection. The nature and scope of the bridge offered a proper balance between task scope and the constrained time and effort of students. To a large extent, the students dealt with a real project and experienced real situations.