



## **ACADEMIC YEAR 2014 – 2015**

### **TITLE OF DIPLOMA THESIS:**

Management and Evaluation of Project Schedules using the Evaluation System LEED

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### **ABSTRACT**

The current era is characterized by a strong growth of interest of the international community to protect the environment and the sustainability of construction. The problems, the natural environment faces, are becoming increasingly apparent and directly affect the health and quality of life of humanity. Sustainable development is considered one way in pursuit of preservation the environment and improving living conditions. The sustainable construction, as one of the most important chapters of sustainable development, can be associated to the implementation of the general principles for the protection of the environment and natural resources, as well as enhancing quality of modern life. A consequence of modern needs and demands is the establishment of buildings assessment methods and certification for the degree of their sustainability. In the framework of the present project, the LEED Green Building Rating System (Leadership in Energy and Environmental Design) is being researched. The LEED system is considered an internationally recognized system of best practices and strategies in the design, construction and operation of sustainable buildings. Furthermore, is being researched how this System is incorporated in the design and construction of a modern construction project. Finally, a road map is being proposed, which can be exploited by a project manager in new building construction. This road map integrates the established procedures and contains those characteristics of the design, construction and monitoring of a project related to the LEED Green Building Rating System.

### **KEYWORDS**

sustainable construction, LEED Green Building Rating System, new building construction, road map