

## Senior Thesis Brief Description

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<b>Thesis Title</b>	<b>Comparative environmental assessment of a contemporary building and a building with a steel frame using Life Cycle Assessment (LCA)</b>
<b>Programme of Studies</b>	BSc in Civil Engineering, Frederick University, Cyprus
<b>Course</b>	CEP 400 Senior Project
<b>Area of Study</b>	Computational Building Physics – Life Cycle Assessment
<b>Student's Name</b>	Maria Nicolaou
<b>Students Reg. Number</b>	6408
<b>Supervisor</b>	Dr.-Ing. Paris A. Fokaides, V. Lecturer, Civil Engineering Department
<b>Supervisory Committee</b>	Dr. George Michaelides, Ass. Professor, Civil Engineering Department Dr. Christakis Onisiphorou, Lecturer, Civil Engineering Department
<b>Semester</b>	Spring Semester 2016
<b>Short Description</b>	The aim of this study was to implement a comparison of the environmental performance of two different buildings using Life Cycle Assessment. In terms of this study, the bill of quantities of two buildings (dwellings of approximately 200 m <sup>2</sup> area each) were considered. The environmental impact indicators were derived with the use of an LCA based evaluation system, EcoHestia, developed by the Sustainable Energy Research Group at Frederick University. This study aspires to underline the environmental aspect of different structures in Civil Engineering.