

Senior Thesis Brief Description

Thesis Title	Monitoring of the energy performance of a residence in Cyprus
Programme of Studies	BSc in Civil Engineering, Frederick University, Cyprus
Course	CEP 400 Senior Project
Area of Study	Computational Building Physics – Whole Building Energy Analysis Experimental Building Physics – In-situ Measurements
Student's Name	Nikos Michael
Students Reg. Number	4780
Supervisor	Dr.-Ing. Paris A. Fokaides, V. Lecturer, Civil Engineering Department
Supervisory Committee	Dr. Antonis Kanelopoulos, Lecturer, Civil Engineering Department Dr. Demetris Nicolaides, Lecturer, Civil Engineering Department
Semester	Spring Semester 2013
Short Description	<p>The scientific objectives of the thesis were the following:</p> <ul style="list-style-type: none">▪ the monitoring of the energy performance of a residence in Larnaca, Cyprus▪ the post-processing of the results and the extraction of specific indicators concerning the building's operational performance▪ the prediction of the energy performance of the building using iSBEMcy software▪ the comparison between the asset and operational performance of the investigated building <p>Measurements that were carried out include:</p> <ul style="list-style-type: none">▪ ambient conditions at residence's area▪ temperature and the humidity within three spaces of the residence▪ residence's energy consumption