

## Master Thesis Brief Description

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<b>Thesis Title</b>	<b>Design, commissioning and management of building services in an experimental building employed for field measurements</b>
<b>Programme of Studies</b>	MSc in Engineering Management
<b>Course</b>	MEM 590 Master Thesis
<b>Area of Study</b>	Facilities Management
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<b>Students Reg. Number</b>	375
<b>Supervisor</b>	Dr.-Ing. Paris A. Fokaides, V. Lecturer, Civil Engineering Department
<b>Supervisory Committee</b>	Dr. Andreas Kanarachos, Professor, Mechanical Engineering Department Dr. Christoforos Charalambous, Assoc. Professor, Computer Science Department
<b>Semester</b>	Fall Semester 2012
<b>Short Description</b>	This study focused on the design, commissioning and management of building services in an experimental building employed for building physics field measurements. A cubicle was secured with the assistance of the Frederick University and the building was studied from beginning to end, taking into consideration building materials, the synthesis of the above materials and finally the building services (HVAC-heating, ventilation, and air conditioning). The first stage in the design process involved consideration of the building concept, i.e. the primary function of the building. Power consuming equipment contained within each room was detailed. The building performance criteria were stated. The performance criteria of human's comfort which encompasses issues such as indoor air quality, adequate ventilation, artificial and day lighting and thermal comfort was satisfied by means of the delivered design.