

Master Thesis Brief Description

Thesis Title	Sustainable Assessment of Frederick's Research Centre at Engineering School Labs Using BREEAM In-Use International Sustainability Scheme
Programme of Studies	MSc in Energy Systems and the Built Environment
Course	MES 580 Master Thesis
Area of Study	Computational Building Physics – Sustainability Assessment
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Supervisory Committee	Dr. George Karagiorgis, Assoc. Professor, Mechanical Engineering Department Dr. Byron Ioannou, Ass. Professor, Architectural Department
Semester	Spring Semester 2016
Short Description	<p>As environmental awareness increases, industries and businesses are assessing how their activities affect the environment. Society has become concerned about the issues of natural resource depletion and environmental degradation. Many businesses have responded to this awareness by providing "greener" products and using "greener" processes. The environmental performance of products and processes has become a key issue, which is why some companies are investigating ways to minimize their effects on the environment. Many companies have found it advantageous to explore ways of moving beyond compliance using pollution prevention strategies and environmental management systems to improve their environmental performance.</p> <p>The purpose of this Thesis is to assess the sustainability of Frederick Research Centre using a sustainability scheme. The initial thought was to use LEED but since BREEAM is closer to European Standards and Regulatory Framework, BREEAM In-Use decided to be used.</p> <p>BREEAM In-Use International is an assessment method which assists property investors, owners, managers and occupiers to drive sustainable improvements through operational efficiency, including how to continually manage the operation of their building effectively. BREEAM In-Use is suitable for all existing commercial type buildings. Currently, the In-Use standard does not apply to residential dwellings.</p>