

Master Thesis Brief Description

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| Thesis Title | Investigation of the energy performance of school buildings |
| Programme of Studies | MSc in Sustainable Energy Systems |
| Course | SES 701 Maser Thesis I + II |
| Area of Study | Experimental Building Physics – In-situ Measurements |
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| Supervisor | Dr.-Ing. Paris A. Fokaides, V. Lecturer, Frederick University |
| Supervisory Committee | Dr. Agis Papadopoulos, Professor, Aristotle University Thessaloniki Dr. Fryni Giama, Lab. Teaching Staff, Aristotle University Thessaloniki |
| Semester | Spring Semester 2017 |
| Short Description | Aim of this project is the investigation of the energy performance of four school buildings at Anatolia College, which is a Private School in Thessaloniki, Greece in the C Climatic Zone. For this purpose we collected data for the electrical and heat consumption for the Library that apart from the books also has many computers available for the students and thus is serving different needs from the classrooms and is offering internet and printing services even during the weekends, a building with classrooms that is operating only during lesson hours, a building with the deans and secretaries offices along with some new classrooms recently constructed, and the Gym which is a quite big building that accommodates games all day and even during weekends in its indoor field and includes as well a room with fitness equipment and some showers. Then we will create tables and figures for the mean heating and electrical energy consumption that will be studied along with questionnaires filled out by students and working staff, in order to evaluate the energy performance and propose any necessary energy conservation measures for the increase of energy efficiency and the decrease of costs, without compromising the comfort level. |