The aim of this subject is to provide basic knowledge on the analysis of the energy consumption and energy saving measures in the built environment. The course will be mainly concerned with the limitation of buildings' energy demand and the energy performance certification of buildings. Energy saving measures applied to the built environment will also be described and discussed. Some real experiences on the integration of smart technologies (energy metering and sensor-actuator networks) in residential and tertiary buildings will be also described.

Learning objectives of the subject

The aim of this subject is to provide basic knowledge on the analysis of the energy consumption and energy saving measures in the built environment. The course will be mainly concerned with the limitation of buildings' energy demand and the energy performance certification of buildings. Energy saving measures applied to the built environment will also be described and discussed. Some real experiences on the integration of smart technologies (energy metering and sensor-actuator networks) in residential and tertiary buildings will be also described.
The final grade depends on the following assessment criteria:
- Project (part 1), weight: 35%
- Project (part 2), weight: 35%
- Class activities, weight: 30%

Non-satisfactory results in the project will be able to be redirected by improving the project individually after highlighting weak points. All the students have the right to improve the project. The improved project will have to be delivered the day scheduled by the school within the period of final exams. Marks in the improved project can range from 0 to 10. Only the best mark will be taken into account.

**Bibliography**

**Others resources:**