### Course Description

**Department**  
05 Building Services Engineering, Paper and Packaging Technology and Print and Media Technology

**Course title**  
Abastecimiento Energético II  (= energy supply in building services engineering)

**Hours per week (SWS)**  
2

**Number of ECTS credits**  
4  (5 credits with adicional presentation)

**Course objective**  
Knowledge of basic energy problems, applications and consequences

**Prerequisites**  
Basic knowledge in Thermodynamics, Physics and Mechanical Engineering

**Recommended reading**  
Materials given by the lecturer

**Teaching methods**  
Presentation, blackboard: written explanations, comparisons in German and English

**Assessment methods**  
Interactive

**Language of instruction**  
Spanish (German and English correspondents)

**Name of lecturer**  
Prof. Dr.-Ing. Hartmut Pietsch

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**Link**  
none

**Course content**  
Energy Supply:
1) Basics
2) Energy application: resources - exploration - consequences
3) Energy transformation machinery
4) Thermodynamic cycles - operation, performance and energy savings
5) Combined heat and power plants
6) Students presentation on energetical subjects

**Remarks**  
This class is suitable as an elective course for all students