

COURSE: ADVANCED TOPICS IN ENERGY

ASSIGNMENT 2018/2019

SCOPE

Based on the Syllabus established for this year:

- 1) Select (at least) 2 units of one scientific area (A. Energy Efficiency or B. Energy and Conversion)
- 2) For the selected units perform a joint work, whose assessment will be made by the corresponding professors (of the selected units).
- 3) The work may take the following forms:
 - a. Development of a prototype and corresponding report
 - b. Realization of field work (e.g. in an external research group) and corresponding report
 - c. Preparation of a monography on a specific topic.
- 4) The written outcome should include references to bibliography, main research groups and current hot topics on the chosen area.
- 5) Prepare 1- 4 pages synthesis of the work.
- 6) Prepare a Powerpoint presentation (40 min).

EVALUATION CRITERIA

The following aspects will be considered:

- Demonstration of the level of understanding of the area and capacity to structure, interlink and synthetize concepts, trends and challenges. [30%]
- Synthesis and critical spirit capabilities. [20%]
- Quality of identified bibliographic references. [15%]
- Identification of main players and research agenda in the area (main research groups and current hot topics). [10%]
- Quality of the presentation and discussion. [25%]

TIMING

- The presentation seminar will take place in June 2019.
- The presentation will include 40 min presentation and 20 min discussion.
- Presentation slides shall be delivered to the involved professors at least 3 days in advance.
- All presentations (of all students) will take place in the same day.

Responsible professor: João Martins

Other professors involved: José M. Ventim Neves, Stan Valtchev, Anabela Pronto nd J. Murta Pina.