280665 - Ship Power Plant

Degree competences to which the subject contributes

Basic:
- 2. Knowledge of electrical machines and marine electrical systems.

Transversal:
- 1. EFFICIENT ORAL AND WRITTEN COMMUNICATION - Level 1. Planning oral communication, answering questions properly and writing straightforward texts that are spelt correctly and are grammatically coherent.

Learning objectives of the subject

- Understanding the basics of electrical machines.
- Understand the schemes and connections of different types of machines and applications.
- Understand the regulatory systems of V, f, P, Q in synchronous generators in island and parallel.
- Having the ability to do calculations and solve problems of electrical machines, using the corresponding equivalent circuits.
- Perform calculations for electrical installations of the ship.
### Study load

| Total learning time: 112h 30m | Hours large group: | 30h | 26.67% |
|                             | Hours medium group: | 0h  | 0.00%  |
|                             | Hours small group:  | 10h | 8.89%  |
|                             | Guided activities:  | 5h  | 4.44%  |
|                             | Self study:         | 67h 30m | 60.00% |
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**Qualification system**

During the course there will be evaluations, according to the following percentages:

- Continuous evaluations 30% (Exams Lab., Practices Lab., Expositions, Tasks)
- Partial Exam 40%
- Final Exam 30%

Reevaluation: Test that includes the concepts and objectives set for the final test.

**Regulations for carrying out activities**

Attendance and completion of the hands-on labs, is a compulsory requirement.

**Bibliography**

**Basic:**


**Complementary:**


**Others resources:**

**Computer material**

- *Apunts, Articles tècnics i Models de simulació aportats pels professor en ATENEA.*