

# Course Syllabi

**CODE** 101

**NAME** Electronic Foundations

**Credits** 6 ECTS

**Period** Fall Semester

## Course Specifications

This subject aims to provide a comprehensive overview of the different aspects of digital electronics, starting from a level of physical devices and reaching a description of logical devices. The course is composed of theory lessons, problem solving classes and laboratory practices.

## Objectives and contents

The main objective of the subject is to provide the students with a first approach to the electronics fundamentals of informatics, helping them to understand the basic elements behind common computer devices (such as processors, memories, etc.) and their operation.

### *Contents*

1. Electronic concepts
2. Electronic devices
3. Switching electronics. Logic families
4. Introduction to digital systems
5. Gate-based combinational analysis and design
6. Combinational logic blocks
7. Sequential logic

## Assessment

Regarding the assessment of the subject, it is performed taking into account laboratory practices (30%) and a final exam (70%). Besides, there are two mid-course exams. Passing the mid-course exams implies removing their content from the final exam.

## Lecturer

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