COMPETENCES AND SKILLS THAT WILL BE ACQUIRED AND LEARNING RESULTS.

Specific Skills:
1. To describe the fundamental of the methods of Quality control and the basic tools for the analysis of processes;
2. To estimate the capacity of a productive process;
3. To draw a Quality control plot for proportions ranks and means;
4. Implementing the previous methods using statistical software.

GENERAL SKILLS
1. Analysis and synthesis capability.
2. Knowledge of statistical software.
4. Team work.

DESCRIPTION OF CONTENTS: PROGRAMME

1. Quality. Quality management system.
2. Management and improvement of quality.
5. Quality indicators.
7. Quality tools.
8. Experiments design for the improvement of quality.
9. 6 Sigma methodology.
10. Quality control and risk management.

LEARNING ACTIVITIES AND METHODOLOGY

Theory (4 ECTS). Theoretical classes with web based support material. Practice (2 ECTS) Tutorial classes both in class and in the computing lab. Oral expositions.

ASSESSMENT SYSTEM

40% of the final mark will be obtained in a final examination of the level of acquired learning skills.
The remaining 40% will be the result of a continued assessment of the students’ understanding both of the theoretical contents of the course and their ability to apply them to the solution of practical problems.

% end-of-term-examination: 40
% of continuous assessment (assignments, laboratory, practicals...): 60

BASIC BIBLIOGRAPHY

- Goetsch, David Quality Management : Introduction to total quality management for production, processing, and services, Prentice Hall, 2000
- Montgomery, Douglas C. Introduction to statistical quality control, John Wiley & Sons., 2005
- Montgomery, Douglas C. Design and analysis of experiments, John Wiley & Sons, 2005