

Course guide

205300 - 205300 - Quality Management: Statistics Methods

Last modified: 19/04/2023

Unit in charge: Terrassa School of Industrial, Aerospace and Audiovisual Engineering
Teaching unit: 715 - EIO - Department of Statistics and Operations Research.

Degree: MASTER'S DEGREE IN MANAGEMENT ENGINEERING (Syllabus 2012). (Optional subject).

Academic year: 2023 **ECTS Credits:** 3.0 **Languages:** Catalan, Spanish

LECTURER

Coordinating lecturer: Eulàlia Grifol Ponsati

Others:

TEACHING METHODOLOGY

1227/5000

The teaching methodology is divided into three parts:

- Face-to-face sessions - Participation of contents and performance of exercises.
- Face-to-face sessions of laboratory work.
- Self study work and exercises and activities.

In the sessions of exhibition -participation of the contents, the teaching staff will introduce the theoretical bases of the subject, concepts, methods and results illustrating them with convenient examples and requesting, in his case, the accomplishment of exercises to facilitate- and their understanding.

In the laboratory work sessions, the teaching staff will guide the students in the application of the theoretical concepts for the resolution of experimental assemblies, based at all times on the critical reasoning. Activities will be proposed that the student will solve in the classroom and outside the classroom, in order to encourage the contact and use of the basic tools necessary for the realization of an instrumentation system.

The student, independently, must work the material provided by the teaching staff and the result of the work sessions-problems in order to assimilate and set the concepts. The teaching staff will provide a plan for study and follow-up activities (ATENEA).

LEARNING OBJECTIVES OF THE SUBJECT

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STUDY LOAD

Type	Hours	Percentage
Hours medium group	8,0	10.67
Guided activities	16,0	21.33
Self study	48,0	64.00
Hours large group	3,0	4.00

Total learning time: 75 h



CONTENTS

title english

Description:

content english

Full-or-part-time: 25h

Theory classes: 2h

Practical classes: 1h

Guided activities: 6h

Self study : 16h

title english

Description:

content english

Full-or-part-time: 25h

Theory classes: 3h

Practical classes: 1h

Guided activities: 5h

Self study : 16h

title english

Description:

content english

Full-or-part-time: 25h

Theory classes: 3h

Practical classes: 1h

Guided activities: 5h

Self study : 16h

GRADING SYSTEM

The final grade of the course depends on the following evaluative acts:

* Exercises, weight: 50%

* Exam, weight: 50%

BIBLIOGRAPHY

Basic:

- Gríful, E.; Canela, M. Gestión de la calidad [on line]. Barcelona: Edicions UPC, 2002 [Consultation: 22/06/2020]. Available on: <http://hdl.handle.net/2099.3/36668>. ISBN 8483016184.
- Norma UNE-EN ISO 9001:2015 Sistemas de gestión de la calidad: Requisitos. 2015.
- Norma UNE-EN ISO 9000:2015. Sistemas de gestión de la calidad: Fundamentos y vocabulario. 2015.
- UNE-ISO 2859-1:2012 Procedimientos de muestreo para la inspección por atributos. Parte 1: Planes de muestreo para las inspecciones lote por lote, tabulados según el límite de calidad de aceptación (LCA). 2012.
- UNE-ISO 2859-2:2012 Procedimientos de muestreo para la inspección por atributos. Parte 2: Planes de muestreo para las inspecciones de lotes independientes, tabulados según la calidad límite (CL).
- ISO 5725-1:1998 Accuracy (trueness and precision) of measurement methods and results. Part 1: General principles and definitions. 1994.