COURSE DATA

DATA SUBJECT

Code: 44870
Name: Quality and project management
Cycle: Master's Degree
ECTS Credits: 6
Academic year: 2026-27

STUDY (S)

Degree	Center	Acad. year	Period
2237 - Master's Degree in Business Process Planning and Management	Facultat d'Economia	2	First quarter

SUBJECT-MATTER

Degree	Subject-matter	Character
2237 - Master's Degree in Business Process Planning and Management	Quality and project management	COMPULSORY

COORDINATION

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SUMMARY

For most companies, project management and quality management and control is of the utmost importance. Let's keep in mind that manufacturing products and offering services are correlated.

The fundamental and advanced aspects of quality management and project management have been collected in two subjects:

- Project Management
- Quality management

Both subjects have been designed to be taught consecutively, sharing objectives, methodology and evaluation.

PREVIOUS KNOWLEDGE

RELATIONSHIP TO OTHER SUBJECTS OF THE SAME DEGREE

There are no specified enrollment restrictions with other subjects of the curriculum.

OTHER REQUIREMENTS

COMPETENCES / LEARNING OUTCOMES

2237 - Master's Degree in Business Process Planning and Management

Analyse and solve management problems by creating and validating models appropriate to the various fields of the company's activity, such as production planning and control, inventory management, distribution and logistics or project management. Work with available or possible data.

Be able to accept change as something connatural to economic activity and develop an attitude of alertness to the dynamism and uncertainty of the business environment.

Be able to actively search for relevant information about the environment and the company, using different sources and procedures.

Be able to define quality management systems and participate in the development and implementation of improvement plans.

Be able to integrate into teams, both as managers or coordinators and for specific and limited functions and in support of the team or of others.

Be able to integrate knowledge and handle the complexity of formulating judgments based on information that, while being incomplete or limited, includes reflection on social and ethical responsibilities linked to the application of knowledge and judgments.

Be able to model real situations as mathematical formulations, especially those involving decision making in complex scenarios.

Be able to synthesise and communicate the results, the conclusions of models and the solutions proposed in a rigorous and clear manner.

Be familiar with the optimisation and simulation tools available in the market and their possible adaptation to business problems. Consider the development of new applications.

Carry out and coordinate projects for technological improvement and innovation in management.

Develop the ability to manage information, with special emphasis on quantitative information. Adequately design the process of data collection and processing.

Have a proactive attitude towards possible changes that may occur in their professional and/or investigative work.

Know how to carry out the planning, monitoring and effective follow-up of a project.

Know how to communicate conclusions and the knowledge and rationale underpinning these, to specialist and non-specialist audiences, clearly and unambiguously.

Know how to work in multidisciplinary teams reproducing real contexts and contributing and coordinating their own knowledge with that of other branches and participants.

Participate in, lead and coordinate debates and discussions, be able to summarize them and extract the most relevant conclusions accepted by the majority.

Propose and/or identify new technologies and evaluate their potential impact on current processes.

Show creativity when facing the resolution of complex problems and be able to evaluate the implications that the alternatives designed may have on the different agents involved.

Students should apply acquired knowledge to solve problems in unfamiliar contexts within their field of study, including multidisciplinary scenarios.

Students should be able to integrate knowledge and address the complexity of making informed judgments based on incomplete or limited information, including reflections on the social and ethical responsibilities associated with the application of their knowledge and judgments.

Students should communicate conclusions and underlying knowledge clearly and unambiguously to both specialized and non-specialized audiences.

Students should demonstrate self-directed learning skills for continued academic growth.

Students should possess and understand foundational knowledge that enables original thinking and research in the field.

To know how to apply acquired knowledge and solve problems in new or unfamiliar situations within wider contexts (or multidisciplinary) related with their field of study.

Use different presentation formats (oral, written, slide presentations, boards, etc.) to communicate knowledge, proposals and positions.

DESCRIPTION OF CONTENTS

1. Project planning and management

1. Introduction to project management
2. Project planning
3. Project monitoring and control.

2. Quality Management

1. Basic concepts of quality
2. Quality management systems based on the ISO-9001 standard. 3.
3. Process improvement methodologies. Tools for quality improvement
4. EFQM2020 model of excellence

WORKLOAD

PRESENCIAL ACTIVITIES

Activity	Hours
Theory	18,00
Seminar	10,00
Computer classroom practice	24,00
Total hours	**52,00**

NON PRESENCIAL ACTIVITIES

Activity	Hours
Attendance at other activities	0,00
Individual or group project	48,00
Independent study and work	0,00
Preparation of lessons	0,00
Preparation for assessment activities	23,00
Resolution of case studies	25,00
Total hours	**96,00**

TEACHING METHODOLOGY

The teaching methodology will consist of face-to-face classes, theoretical and practical, and a series of assignments to be developed by the student. The face-to-face classes will be divided into:

- Theoretical classes, in which the basic concepts of each of the points of the module will be presented.
- Practical classes, in which practical exercises of what was exposed in the theory classes will be developed to reinforce understanding. These classes will also serve to generate new points of view and approaches not analysed in the theoretical classes, as well as to check the degree of acquisition of the theoretical knowledge by the students.

Likewise, the student will have to develop a series of works with the help of the professor's tutorials. These works will consist on projects that will allow the student to check the degree of assimilation of the concepts seen in each module. They will be eminently practical, but they will cover theoretical aspects seen in the module.

EVALUATION

A professor will coordinate the modules, who will be in charge of the administrative management (information to the students about the activities, access to the course materials, access to the students to the course materials, etc.) and coordination with the other professors involved.

All teachers involved in the teaching sessions and laboratories of the module will follow the same

evaluation schemes and the same activities. The evaluation is the same for all subjects, but separate for each subject, i.e., there is a project work, a quality work, etc.

The evaluation of the students' learning will be done by assessing the following sections:

1. In order to pass each subject, a minimum of 50% attendance is required, to be computed within each subject and with all the sessions of the subject, including seminars.
2. Evaluation with 60-100% of weight in the works and exercises to be delivered in each subject.
3. The dates of delivery of the exercises and works of each subject to be set by the teacher and up to a maximum of one week after the end of that subject. Extensions in the delivery of work must be duly justified and previously agreed with the corresponding teacher.
4. Evaluation with a 40% of an exam in each subject, only when the teacher deems it necessary and in the case of students who do not take a continuous evaluation.
5. The examination dates for each subject within the two modules will be determined by the CCA of the master's degree.
6. To pass the module a minimum of 4 out of 10 is required in each subject.
7. The final grade of the module is 0,5*projects+0,5*quality.

REFERENCES

BASIC:

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- Juran, J., Godfrey, A. , Manual de Calidad. McGraw-Hill Interamericana, 2001.
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ADDITIONAL:

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