GENERAL FEATURES*
Type: ☐ Basic Training, ☑ Compulsory, ☐ Elective
☐ Master's thesis work, ☐ Outside practical
Duration: Semestral
Number of ECTS credits: 5
Language/s: Spanish, Catalan

DESCRIPTION

BRIEF DESCRIPTION AND JUSTIFICATION (The meaning of the course in relation to the program. Between 100 and 200 words.)

This course introduce Project Management techniques in a company. It works from the definition of the strategy and organization to techniques for guiding teams towards defined objectives. The course involves studying the different areas of project management and planning/controlling systems.

COMPETENCES (Of the course in relation with preassigned competences in this area.)

Basic competences
- To possess and understand knowledge to provide a basis or opportunity for originality in developing and/or applying ideas, often in a research context (CB6).
- That the students can apply their knowledge and their ability to solve problems in new or unfamiliar environments within broader (or multidisciplinary) contexts related to their field of study (CB7).
- That the students are able to integrate knowledge and handle complexity, and formulate judgments based on information that was incomplete or limited, includes reflections on social and ethical responsibilities (CB8).
- That the students can communicate their conclusions, and the knowledge and rationale underpinning these, to specialist and non-specialist audiences clearly and unambiguously (CB9).

General competences
- Ability to lead, direct and manage projects in academic or business environments adapting to the structures, needs and ways of operation of each institution (CG1).

Specific competences
- Possess knowledge of project management and tools for planning, implementation and monitoring projects for application in pharmaceutical chemistry (E4).
- Ability to define tasks, assign resources, define costs and monitoring a project (E5).

Transversal competences
- Ability to lead and direct teams (T2).

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**COURSE: PROJECT MANAGEMENT**

**SUBJECT:** Project Management  
**MODULE:** Transversal  
**PROGRAM:** University Master’s Degree in Pharmaceutical Chemistry

PREREQUISITES * (Modules, materials, subjects or skills necessary to follow the course. Subjects can be stated that should have been completed.)

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**CONTENTS** (Sections that make up the syllabus, to a second level of detail.)

1. Project and Project Management definition.  
2. Strategic Analysis  
3. Life cycle of a project.  
4. Project Management areas  
5. Planning and control systems of a project  
6. Organization of the project team.  
7. R + D + i.

**METHODOLOGY**

**TRAINING ACTIVITIES** * (Complete the table relating activities, workload in ECTS credits and skills.)

<table>
<thead>
<tr>
<th>Training Activities</th>
<th>ECTS</th>
<th>Competences</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sessions of exposition of concepts</td>
<td>1,1</td>
<td>E4, E5, T2 / CB6, CB7, CG1</td>
</tr>
<tr>
<td>Sessions solving exercises, problems and cases</td>
<td>0,1</td>
<td>E4, E5, T2 / CB6, CB7, CG1</td>
</tr>
<tr>
<td>Seminars</td>
<td>0,1</td>
<td>E4, E5, T2 / CB8, CB9, CG1</td>
</tr>
<tr>
<td>Compulsory activities at the professor office</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Practical Work / laboratory</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Presentations</td>
<td>0,2</td>
<td>E4, E5, T2 / CB8, CB9, CG1</td>
</tr>
<tr>
<td>Activities of personal study by students</td>
<td>3,3</td>
<td>E4, E5, T2 / CB6, CB7, CB8, CG1</td>
</tr>
<tr>
<td>Evaluation activities (testing, monitoring controls ...)</td>
<td>0,1</td>
<td>E4, E5, T2 / CB6, CB7, CB8, CB9, CG1</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td>5</td>
<td>-</td>
</tr>
</tbody>
</table>

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TEACHING METHODOLOGY  (Justifying the teaching methods used in relation to the competences and contents of the course. Between 100 and 200 words.)

The course consists of about 40 hours of lectures. Attendance at these classes represents about one third of the student’s dedication to this course.

Classes are held by theoretical and practical explanations using informatics support. The presentation of themes is complemented by discussion and resolution of problems and case studies. In seminars, it is carried out a discussion about difficulties that students have found, especially during solving exercises and cases or developing works. Classes are participatory, maintaining a constant dialogue with students.

Blackboard platform is used in order to provide students the basic and supplementary course material and for discussion and resolution of cases.

EVALUATION

ASSESSMENT SYSTEM  *  (Complete the table relating evaluation methods, competences and weight in the qualification of the subject.)

<table>
<thead>
<tr>
<th>Evaluation methods</th>
<th>%</th>
<th>Competences</th>
</tr>
</thead>
<tbody>
<tr>
<td>Final exam</td>
<td>50%</td>
<td>E4, E5, T2, CB6, CB7</td>
</tr>
<tr>
<td>Follow-up exams</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Follow-up activities</td>
<td>25%</td>
<td>E4, E5, T2, CB6, CB7</td>
</tr>
<tr>
<td>Works and presentations</td>
<td>20%</td>
<td>E4, E5, T2, CB8, CB9</td>
</tr>
<tr>
<td>Experimental work</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Projects</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Evaluation of company or institution</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Participation</td>
<td>5%</td>
<td>T2</td>
</tr>
</tbody>
</table>

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LEARNING OUTCOMES (Explanation of the embodiments that allow competences evaluation of student, relating them to the competences and evaluation methods.)

- Student must demonstrate knowledge of Project Management in developing and/or applying ideas, often in a research context [CB6].
- Student must demonstrate the ability to solve problems and cases related to Project management in different contexts. [CB7].
- Student must demonstrate the understanding of the importance of project management and ethical behavior in relation to the exercise of their profession [CB8].
- Student must demonstrate the ability to communicate orally and in writing to convey their knowledge, conclusions and supported reasons in relation to project management [CB9].
- Student must demonstrate that knows how to work and manage projects in an environment both business and academic [CG1].
- Student must demonstrate knowledge of Project Management concepts and tools for planning, implementation and monitoring projects for application in pharmaceutical chemistry [E4].
- Student must demonstrate the ability to define tasks integrated in a project, assign needed resources and define costs of a project [E5].
- Student must demonstrate capacity for implementation and monitoring a project and know when has to be closed [E5].
- Student must demonstrate acquisition of abilities of project manager in terms of leadership and team management [T2].

QUALIFICATION (Explanation of the system used for the grade of the student.)

The grade of this course is obtained:

<table>
<thead>
<tr>
<th>Component</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Final Exam</td>
<td>50%</td>
</tr>
<tr>
<td>Follow-up activities</td>
<td>25%</td>
</tr>
<tr>
<td>Works and presentations</td>
<td>20%</td>
</tr>
<tr>
<td>Participation</td>
<td>5%</td>
</tr>
</tbody>
</table>

Follow-up activities include exercises, problems and cases delivered to students during the course. Students carry out a work about a project and they perform an oral presentation about this work. Participation include attitude, attendance and initiative shown by the student. Grades obtained in the final exam, follow-up activities and work and presentation must be greater than or equal to 4 points to pass the course.
**ASSESSMENT OF THE COMPETENCES**
(Define calculation expressions for each competence and the relevant evaluation methods.)

<table>
<thead>
<tr>
<th>Competences</th>
<th>Evaluation Methods</th>
<th>Observations (calculation)</th>
</tr>
</thead>
<tbody>
<tr>
<td>To possess and understand knowledge of Project Management to provide a basis or opportunity for originality in developing and/or applying ideas, often in a research context (CB6).</td>
<td>Final Exam Follow-up activities</td>
<td>Final Exam</td>
</tr>
<tr>
<td>That the students can <strong>apply</strong> their knowledge of Project Management and their ability to <strong>solve problems</strong> in new or unfamiliar environments within broader (or multidisciplinary) contexts related to their field of study (CB7).</td>
<td>Final Exam Follow-up activities</td>
<td>Follow-up activities</td>
</tr>
<tr>
<td>That the students are able to <strong>integrate</strong> knowledge and handle complexity, and formulate <strong>judgments</strong> based on information that was incomplete or limited, includes reflections on social and ethical responsibilities (CB8).</td>
<td>Works and presentations</td>
<td>Written work</td>
</tr>
<tr>
<td>That the students can <strong>communicate</strong> their conclusions, and the knowledge and rationale underpinning these, to specialist and non-specialist audiences clearly and unambiguously (CB9).</td>
<td>Works and presentations</td>
<td>Oral presentation</td>
</tr>
<tr>
<td>Ability to lead, direct and manage projects in academic or business environments adapting to the structures, needs and ways of operation of each institution (CG1).</td>
<td>Final Exam Follow-up activities Works and presentations</td>
<td>Work and presentation</td>
</tr>
<tr>
<td>Possess knowledge of project management and tools for planning, implementation and monitoring projects for application in pharmaceutical chemistry (E4).</td>
<td>Final Exam Follow-up activities Works and presentations</td>
<td>Final grade of the course</td>
</tr>
<tr>
<td>Ability to define tasks, assign resources, define costs and monitoring a project (E5).</td>
<td>Final Exam Follow-up activities Works and presentations</td>
<td>Follow-up activities</td>
</tr>
<tr>
<td>Ability to lead and <strong>direct teams</strong> (T2).</td>
<td>Final Exam Follow-up activities Works and presentations Participation</td>
<td>Participation</td>
</tr>
</tbody>
</table>

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COURSE: PROJECT MANAGEMENT

SUBJECT: Project Management

MODULE: Transversal

PROGRAM: University Master's Degree in Pharmaceutical Chemistry

BIBLIOGRAPHY (Recommended and accessible to the student.)

- Norma ISO 21500:2013 “Directrices para la dirección y gestión de proyectos”.
- Norma UNE 157001:2014 “Criterios generales para la elaboración formal de los documentos que constituyen un proyecto técnico”.
- Norma UNE 166000:2006 “Gestión de la I+D+i: Terminología y definiciones de las actividades de I+D+i”.
- Norma UNE 166001:2006 “Gestión de la I+D+i: Requisitos de un proyecto de I+D+i”.
- Norma UNE 166002:2014 “Gestión de la I+D+i. Requisitos del Sistema de Gestión de I+D+i”.
- Guerra, L., “Gestión integral de proyectos”, FC Ed.

DOCUMENT HISTORY

PREVIOUS CHANGES (indicate date and author / s, the most recent first)
September 2016 (Dra. Judith Báguena)
September 2015 (Dra. Judith Báguena)
September 2014 (Dra. Judith Báguena)
September 2013 (Dra. Judith Báguena)
July 2012 (Dra. Judith Báguena)

LAST REVISION (indicate date and the author / s.)
September 2017 (Dra. Judith Báguena)

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