COURSE DATA

Data Subject	
Code	34212
Name	External internships
Cycle	Grade
ECTS Credits	6.0
Academic year	2016 - 2017

Study (s)

Degree	Center	Acad. year	Period
1108 - Degree in Chemistry	Faculty of Chemistry	4	Second term

Subject-matter

Degree	Subject-matter	Character
1108 - Degree in Chemistry	12 - External internship	External Practice

Coordination

Name	Department
MARTINEZ TAMAYO, EDUARDO	320 - Inorganic Chemistry

SUMMARY

Internships is an optional subject worth 6 ECTS credits scheduled to be taken during the 8th semester (year 4) of the Degree in Chemistry.

Internships primarily aim to enable students to apply and supplement the knowledge acquired during their academic training and to promote their acquisition of skills that prepare them for the exercise of professional activities, facilitate their employability and encourage their entrepreneurial capacity.

Internships must be defined in a training project according to one of the pre-established models and which specifies the educational goals and tasks that the student must pursue during his or her stay at the company or institution. The training project should be established by agreement between tutors, either on a proposal from the collaborating institution or from the University of Valencia. Also, the contents of internships must be defined so as to ensure the direct relationship between the skills to be acquired and the studies completed.

PREVIOUS KNOWLEDGE

Relationship to other subjects of the same degree

1108 - Degree in Chemistry V1-2009 :

1110 - Degree in Chemistry V2-2018 :

R4-OBLIGATION TO HAVE SUCCESSFULLY COMPLETED THE COURSE

34183 - General Chemistry I

34184 - General Chemistry II

34185 - Chemistry laboratory I

34186 - Chemistry laboratory II

34187 - Mathematics I

34188 - Mathematics II

34189 - Physics I

34190 - Physics II

34191 - Biology

34192 - Informatics for Chemistry

34193 - Physical Chemistry I

34194 - Physical Chemistry II

34196 - Physical Chemistry Laboratory I

34198 - Inorganic Chemistry I

34199 - Inorganic Chemistry II

34201 - Inorganic Chemistry Laboratory I

34203 - Organic Chemistry I

34204 - Organic Chemistry II

34206 - Organic Chemistry Laboratory I

34228 - Analytical Chemistry I

34229 - Analytical Chemistry II

34231 - Analytical Chemistry Laboratory I

34183 - General Chemistry I

34184 - General Chemistry II

34185 - Chemistry laboratory I

34186 - Chemistry laboratory II

34187 - Mathematics I

34188 - Mathematics II

34189 - Physics I

34190 - Physics II

34191 - Biology

34192 - Informatics for Chemistry

34193 - Physical Chemistry I

34194 - Physical Chemistry II

34196 - Physical Chemistry Laboratory I

34198 - Inorganic Chemistry I

34199 - Inorganic Chemistry II

34201 - Inorganic Chemistry Laboratory I

34203 - Organic Chemistry I

34204 - Organic Chemistry II

34206 - Organic Chemistry Laboratory I

34228 - Analytical Chemistry I

34229 - Analytical Chemistry II

34231 - Analytical Chemistry Laboratory I

Other requirements

This course aims to supplement and apply fundamental knowledge acquired by students during their academic training. Therefore, to be allowed to take this subject, students must have passed all subjects in year 1 and year 2 and at least 150 ECTS credits in core and compulsory subjects.

OUTCOMES

1108 - Degree in Chemistry

- Demonstrate ability to work in teams both in interdisciplinary teams and in an international context.
- Demonstrate a commitment to ethics, equality values and social responsibility as a citizen and as a professional.
- Demonstrate the ability to adapt to new situations.
- Acquire a permanent sensitivity to quality, the environment, sustainable development and the prevention of occupational hazards.
- Evaluate, interpret and synthesise chemical data and information.
- Interpret data from observations and measurements in the laboratory in terms of their significance and the theories that underpin them.
- Relate theory and experimentation.
- Recognise and evaluate chemical processes in daily life.

- Develop sustainable and environmentally friendly methods.
- Prepare reports, surveys and industrial and environmental projects in the field of chemistry.
- Students must be able to apply their knowledge to their work or vocation in a professional manner and have acquired the competences required for the preparation and defence of arguments and for problem solving in their field of study.
- Students must have the ability to gather and interpret relevant data (usually in their field of study) to make judgements that take relevant social, scientific or ethical issues into consideration.
- Students must be able to communicate information, ideas, problems and solutions to both expert and lay audiences.
- Students must have developed the learning skills needed to undertake further study with a high degree of autonomy.
- Express oneself correctly, both orally and in writing, in any of the official languages of the Valencian Community.
- Have basic skills in the use of information and communication technology and properly manage the information obtained.

LEARNING OUTCOMES

1 Be able to plan production, sequence tasks and manage inventory.
2 Know the principles governing working life: hierarchy, punctuality, order, etc.
3 Develop skills of cooperation with other professionals.
4 Know the production and manufacturing systems.
5 Learn the basics of security in industrial processes.
6 Be able to apply the principles and methods of quality.
7 Have the skills to write professional reports.
8 Know the characteristics and importance of sustainable chemical industry.
9 Know transformation systems to obtain a final product according to a specification given.
10 Be familiar with accreditation and certification systems.
11 Know and practice teamwork dynamics with a responsible, professional, ethical behaviour and from a gender perspective.
12 Show ability to adapt to new situations.

• To be able to defend in public the obtained results.
• To be able to relate the chemistry to other disciplines.

DESCRIPTION OF CONTENTS

1. Practices realized in companies

The course involves conducting independent and individual work, under the supervision of a company tutor and the tutoring of an academic tutor, in accordance with the training plan delivered to students at the start of their internships. Work placements will take place at a partner institution in accordance with the University of Valencia Internship Regulations.

WORKLOAD

ACTIVITY	Hours	% To be attended
Internship		100
Development of individual work	12,00	0
TOTAL	**12,00**	

TEACHING METHODOLOGY

Each academic year, the University publishes a list of companies/institutions that offer work placements. Students may apply for internships according to the procedure established and within the deadline set by the school's Internship Committee. The choice of company will be held in a public session and arranged in the order of the students' academic records.

According to the regulations, the student may also apply for an autopracticum within the deadline set by the school's Internship Committee, which will assess the application and accept it, where appropriate.

Each student will be assigned a company tutor and an academic tutor. The company tutor will be assigned by the collaborating institution and the academic tutor will be assigned by the school's Internship Committee at the suggestion of the school's internship coordinator. Both tutors are to coordinate the development of the activities established in the training project and will be in contact to solve any issues or problems that may arise.

The company tutor's mission is to provide the student with the specifications of the tasks to be undertaken and to advise him or her on any relevant practical matter.

Academic tutors, at a meeting to be held before the start of the internship, will inform students of the assessment criteria and the preparation of the report and, if necessary, will be responsible for solving any issues raised by students during the development of internships.

After internships, the student shall submit the INTERNSHIP REPORT to the academic tutor, including the following contents:

a. Description of the company where the work placement was carried out (5%)

b. Description of the company's structure, organisation, resources, activities, etc. (20%)

c. Description of the activities carried out during the internship (diary) and the specific contributions of these activities to his or her learning (70%)

d. Student's personal assessment of the work performed and, where appropriate, suggestions for improvement (5%)

The length of the report must be between 25 and 30 pages in Arial font and size 12. The cover must include the name of the university (University of Valencia), the name of the degree, the academic year, the subject (Internships), the student's name and the name of the university tutor. On the first page there must be an index with the sections and corresponding page numbers.

EVALUATION

Students must write a final internship report following the recommendations contained in Article 22 of the University of Valencia Internship Regulations. The company tutor must prepare a report on the trainee evaluating different aspects such as organisation, initiative, interest, interpretation and evaluation of data, punctuality, integration into the working group and assimilation of new technologies. The company tutor must send this confidential report to the academic tutor. The academic tutor will assess the quality of the report submitted by the student and will give it a mark.

The final mark obtained by the student will correspond to the addition of the following percentages: 25% based on the external tutor’s assessment; 25% based on the internship final report and 50% based on the academic tutor’s assessment.

REFERENCES

Basic

- REGLAMENT DE PRÀCTIQUES EXTERNES DE LA UNIVERSITAT DE VALÈNCIA Aprovat en Consell de Govern de 26 de juny de 2012. ACGUV 131/2012
- Real Decreto 592/2014, de 11 de julio, por el que se regulan las prácticas académicas externas de los estudiantes universitarios.