

COURSE OUTLINE

(1) GENERAL

SCHOOL	Sciences		
ACADEMIC UNIT	International Graduate Program in Biological Inorganic Chemistry		
LEVEL OF STUDIES	Graduate		
COURSE CODE	3	SEMESTER	2
COURSE TITLE	Thesis A		
INDEPENDENT TEACHING ACTIVITIES <i>if credits are awarded for separate components of the course, e.g. lectures, laboratory exercises, etc. If the credits are awarded for the whole of the course, give the weekly teaching hours and the total credits</i>	WEEKLY TEACHING HOURS	CREDITS	
		15	
<i>Add rows if necessary. The organisation of teaching and the teaching methods used are described in detail at (d).</i>			
COURSE TYPE <i>general background, special background, specialised general knowledge, skills development</i>	Scientific field Special background Specialised general knowledge		
PREREQUISITE COURSES:	No		
LANGUAGE OF INSTRUCTION and EXAMINATIONS:	Greek / English		
IS THE COURSE OFFERED TO ERASMUS STUDENTS	Yes		
COURSE WEBSITE (URL)	http://bic.chem.uoi.gr/BIC-En/StartDiploma-en.html		

(2) LEARNING OUTCOMES

Learning outcomes

The course learning outcomes, specific knowledge, skills and competences of an appropriate level, which the students will acquire with the successful completion of the course are described.

Consult Appendix A

- *Description of the level of learning outcomes for each qualifications cycle, according to the Qualifications Framework of the European Higher Education Area*
- *Descriptors for Levels 6, 7 & 8 of the European Qualifications Framework for Lifelong Learning and Appendix B*
- *Guidelines for writing Learning Outcomes*

The postgraduate thesis is an individual in-depth research / exploration of a specific topic. Thesis should be chosen according to particular interests of the student or the academic supervisor and should be in harmony with the Department's research strategy. The overall goal is to provide students with the opportunity to develop and implement research methodologies. This process will lead to the development of a wide range of skills. It is important to gain self-management skills to achieve the specific objectives set within a specific time period. The ability to identify problems and find appropriate solutions, as well as the ability to evaluate the results and to propose alternative strategies, should also be demonstrated.

Course description

The student will develop and submit a detailed project proposal, including logical basis, research methodology, experimental plan (including timetable and detailed highlights) and cost. The program proposal must be approved by the supervising professor before the student starts practical work. The student will be in close contact with the supervisor throughout the program with regular feedback.

Expected Learning Outcomes

After completion of the course, students should be able to:

- demonstrate initiative and confidence in their ability to make decisions and follow the consequences they create.
- apply a detailed approach to solve problems.
- effectively apply appropriate communication skills as experts.
- produce a comprehensive self-management plan to achieve set goals.
- produce a critical review using and reporting sources of information.
- produce and justify a sustainable project proposal and experimental plan that is appropriate in terms of methodologies, available resources, time and cost.
- undertake a work plan that generates primary data, followed by analysis and interpretation of data using appropriate tools.
- draw logical conclusions and make suggestions based on the work of the project that has been undertaken.
- Produce a structured written report using the appropriate format with the appropriate references.
- Demonstrate an in-depth understanding of the project through self-defense with oral presentation (support for postgraduate diploma thesis).

General Competences

Taking into consideration the general competences that the degree-holder must acquire (as these appear in the Diploma Supplement and appear below), at which of the following does the course aim?

Search for, analysis and synthesis of data and information, with the use of the necessary technology

Adapting to new situations

Decision-making

Working independently

Team work

Working in an international environment

Working in an interdisciplinary environment

Production of new research ideas

Project planning and management

Respect for difference and multiculturalism

Respect for the natural environment

Showing social, professional and ethical responsibility and sensitivity to gender issues

Criticism and self-criticism

Production of free, creative and inductive thinking

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Others...

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The general competences that students should have acquired are:

Search for, analysis and synthesis of data and information and decision making

Translating the theory into practice

Production of free, creative and inductive thinking

Working independently and team work

Acquire the appropriate theoretical base to allow further education at a doctoral level (theoretical and laboratory).

Project planning and management

Production of new research ideas

Working in an interdisciplinary environment

Adapting to new situations

(3) SYLLABUS

Supervisors will indicate the appropriate literature and appropriate references concerning the subject of postgraduate diploma thesis.

(4) TEACHING and LEARNING METHODS - EVALUATION

DELIVERY <i>Face-to-face, Distance learning, etc.</i>	Face to face, Work in a laboratory environment	
USE OF INFORMATION AND COMMUNICATIONS TECHNOLOGY <i>Use of ICT in teaching, laboratory education, communication with students</i>	Natural presence	
TEACHING METHODS <i>The manner and methods of teaching are described in detail. Lectures, seminars, laboratory practice, fieldwork, study and analysis of bibliography, tutorials, placements, clinical practice, art workshop, interactive teaching, educational visits, project, essay writing, artistic creativity, etc.</i>	Activity	Semester workload
	Lectures	0
	Essay writing	95
	Individual study, preparation	100

<p><i>The student's study hours for each learning activity are given as well as the hours of non-directed study according to the principles of the ECTS</i></p>		
	Course total	195
<p align="center">STUDENT PERFORMANCE EVALUATION</p> <p><i>Description of the evaluation procedure</i></p> <p><i>Language of evaluation, methods of evaluation, summative or conclusive, multiple choice questionnaires, short-answer questions, open-ended questions, problem solving, written work, essay/report, oral examination, public presentation, laboratory work, clinical examination of patient, art interpretation, concerning other</i></p> <p><i>Specifically-defined evaluation criteria are given, and if and where they are accessible to students.</i></p>	<p>The evaluation of the students is done by Oral Examination - Public Presentation of the Postgraduate Diploma Thesis.</p>	

(5) ATTACHED BIBLIOGRAPHY

<p>Suggested Bibliography</p> <p>Supervisors will indicate the appropriate literature and appropriate references concerning the subject of postgraduate diploma thesis.</p>
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