Course Outline

1) General

SCHOOL	SCIENCE				
DEPARTMENT	CHEMISTRY				
DEGREE	MASTER				
COURSE CODE	18∆E	SEMESTER 3			
COURSE TITLE	Literature survey and oral presentation on the research topic				
	of the thesis. Research methodology				
INDEPENDENT TEACHING ACTIVITIES					
in the case that the credits are awarded to separate parts of the TEACHING					
course e.g. Lectures, Laboratory Exercises, etc. If the credits are			HOURS PER		CREDITS
awarded uniformly for the entire	WEEK				
teaching hours and total credits					
Bibliographic search			7		10
Add lines if necessary. The teaching organization and methods used are					
described in detail in (d).					
COURSE TYPE	SPECIAL BACKGROUND, SKILL DEVELOPMENT				
general background,					
special background, general knowledge specialization, skill					
development					
PREREQUISITE COURSES:	NO				
COURSE AND EXAM LANGUAGE:	GREEK				
IS THE COURSE OFFERED TO	IF NEEDED YES				
ERASMUS STUDENTS ?					
COURSE WEBSITE (URL)	https://eclass.uoa.gr/courses/CHEM327/				

(1) LEARNING OUTCOMES

LEARNING OUTCOMES

The learning outcomes, specific knowledge, skills and abilities of an appropriate level that the students will acquire after the successful completion of the course are described.

Consult Appendix A

- Description of the Level of Learning Outcomes for each course of study according to the Qualifications Framework of the European Higher Education Area
- Descriptive Indicators for Levels 6, 7 & 8 of the European Qualifications Framework for Lifelong Learning and Annex B
- Comprehensive Guide to writing Learning Outcomes

The aim of the course is to disseminate knowledge and develop skills on the literature research methodology and coverage through the electronic on line resources of the NKUA (HEALINK, Scopus, WOS, etc.). To this end, the following tasks are taking place: Bibliographic review of the topic of the Postgraduate Diploma Thesis (PDT) of each postgraduate student; critical report writing of the results of the literature research; oral presentation of their results. Throughout this exercise, students are guided by their supervisors and present in front of the teaching staff and students of the Postgraduate Program.

More specifically, in the context of this course, students are taught:

- the ways in which literature research is carried out (searching for books, original scientific articles and review articles, doctoral theses, patent diplomas, etc.).
- the leverage the Cambridge crystallographic database to identify crystal structures in the literature.
- to deal with cutting-edge research topics, which focus on areas of strong scientific or technological interest.
- the ways of the presentation and discussion of research results in the meetings of the research groups
- to write a scientific publication through the critical reading of the literature.
- the rules of ethics and research ethics

Cognizance outcomes

- Comprehension and understanding of research methodology.
- Comprehension and understanding of the theoretical background before carrying out the experimental work.
- Comprehension and understanding of the use of the Cambridge crystallographic database, its capabilities and applications.
- Knowledge and understanding of academic and research ethics

Skills

- Skill in literature search (books, original articles and review articles, patents, etc.).
- Skill in using the Cambridge crystallographic database.
- Skill in critical presentation of bibliographic data
- Skill in applying ethics and morality (avoid copying etc.)

Abilities

- Ability to review the literature of a research topic.
- Ability in the synthetic presentation of a large volume of bibliographic data
- Ability to critically evaluate bibliographic data
- Ability to present while avoiding duplication
- Ability to identify and attribute information sources.

General Skills

Taking into account the general skills that the graduate must have acquired (as stated in the Diploma Appendix and listed below) which of the following is/are the course aimed at?.

Reearch, analysis and synthesis of data and information, using the necessary technologies Adaptation to new situations Decision making

Project planning and management Respect for diversity and multiculturalism Respect for the environment

Demonstrating social, professional and ethical responsibility

Independent workand sensitivity to gender issuesTeamworkExercise criticism and self-criticism

Working in an international environment Promotion of free, creative and inductive thinking

Working in an interdisciplinary environment Other... Generating new research ideas

The course aims at equipping students with the following general skills:

- Search, analysis and synthesis of data and information, using the necessary databases and technologies.
- Writing a scientific review.
- Autonomous work.
- Adherence to academic ethics and ethics.

(2) COURSE CONTENT

The content is related to and depends on the research topic of the experimental part of the thesis.

(3) TEACHING AND LEARNING METHODS - EVALUATION

LECTURES' DELIVERY In person, distance, etc	In person, collaboration with research team members, email communication.			
USE OF INFORMATION AND COMMUNICATIONS TECHNOLOGIES Use of I.C. T. in Lectures, Laboratory Exercises, Communication with students	In Teaching:			
TEACHING ORGANIZATION	Activity	Semester workload		
The teaching style and methods are described in detail. Lectures, Seminars, Laboratory Exercises, Field Exercises, Literature Study & Analysis, Tutorial, Internship (Placement), Clinical Exercises, Art Workshop, Interactive Teaching, Educational Visits, Study Preparation (Project), PaperWriting	Collaboration with the Supervisor of MSc Thesis	30		
	Independent literature research	80		
	Project writing and Presentation	140		
Assignments, Artistic Creation, etc. etc.	total	250		
The student's study hours for each learning activity as well as unguided study hours according to ECTS principles are listed STUDENT EVALUATION Description of the evaluation process	The evaluation of the course ta includes: • evaluation of the bibliograph:	-		
Assessment Language, Assessment Methods, Formative or Deductive, Multiple Choice Test, Short Answer Questions, Essay Development Questions, Problem Solving, Written Assignment, Report / Report, Oral Examination, Public Presentation, Laboratory Work, Clinical Patient Examination, Artistic Interpretation, Other / Others	evaluation of the ofoliograph.	as were une to presentation		
Explicitly defined evaluation criteria are mentioned, and if and where they are accessible by students.				

(4) RECOMMENDED BIBLIOGRAPHY

- https://www.ccdc.cam.ac.uk/Community/educationalresources/
- Books, scientific articles, etc., which are related to the respective research topic.