COURSE OUTLINE

(1) GENERAL

SCHOOL	NATURAL SC	IFNCES		
ACADEMIC UNIT	DEPARTMENT OF BIOLOGY			
LEVEL OF STUDIES	UNDERGRADUATE			
COURSE CODE				
	BIO_ZTEZ	BIO_ΣΤΕ2 SEMESTER 6/8		
COURSE TITLE	CLINICAL CHEMISTRY			
INDEPENDENT TEACHING ACTIVITIES 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		WEEKLY TEACHING HOURS	CREDITS	
Lei	ctures and practical exercises 5 6		6	
Add rows if necessary. The organisation of teaching and the teaching methods used are described in detail at (d).				
COURSE TYPE general background, special background, specialised general knowledge, skills development	Scientific spe	ecialized backgro	und	
PREREQUISITE COURSES:	Formally there are no prerequisites.			
	However, knowledge of Human Physiology and Immunology			
	are recomm	_		
LANGUAGE OF INSTRUCTION and EXAMINATIONS:	Greek			
IS THE COURSE OFFERED TO				
ERASMUS STUDENTS				
COURSE WEBSITE (URL)				

(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
- $\bullet \quad \textit{Descriptors for Levels 6, 7 \& 8 of the European Qualifications Framework for Lifelong Learning and Appendix B}\\$
- Guidelines for writing Learning Outcomes

The students will learn how basic clinical analyses (general blood tests, biochemical tests, immunological analyses etc) are performed in a Clinical Laboratory, and how they can check and give reliable results.

General Competences Taking into consideration the general competences that the Supplement and appear below), at which of the following do	degree-holder must acquire (as these appear in the Diploma pes 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 Others
Quest, analysis ans synthesis of data an dinform	nation, using necessary technologies. Final conclusion.
(3) SYLLABUS	
	er function tests, Glucose and lipid metabolism check, ons, Laboratory aspects of cancer, Immunological

(4) TEACHING and LEARNING METHODS - EVALUATION

	Ι =		
DELIVERY	Face to face lectures in classroom and lab		
Face-to-face, Distance learning, etc.			
USE OF INFORMATION AND			
COMMUNICATIONS TECHNOLOGY			
Use of ICT in teaching, laboratory education,			
communication with students			
TEACHING METHODS	Activity	Semester workload	
The manner and methods of teaching are described in detail.	Lectures	26	
Lectures, seminars, laboratory practice,	Lab practice	15	
fieldwork, study and analysis of bibliography,	Tutorials	4	
tutorials, placements, clinical practice, art	Educational visits	3	
workshop, interactive teaching, educational			
visits, project, essay writing, artistic creativity,			
etc.			
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			
	Course total	48	
STUDENT PERFORMANCE EVALUATION			
Description of the evaluation procedure			
Language of evaluation, methods of evaluation, summative or conclusive, multiple choice questionnaires, short-answer questions, openended questions, problem solving, written work, essay/report, oral examination, public presentation, laboratory work, clinical examination of patient, art interpretation, other Specifically-defined evaluation criteria are given, and if and where they are accessible to students.	Every lab exercise if followed by a test with questions of short answers and mathematical problems. The average of these tests consists the 20% of the final degree. The final examination of the course includes questions of judgement and table filling which combine analyses results and biological fluids. The grade of the final test consists the 80% of the final rating, along with the 20% of the lab tests. The evaluation criteria are mentioned at the eclass of the course.		

(5) ATTACHED BIBLIOGRAPHY

- Suggested bibliography:

Skorilas A. Principals of Clinical Chemistry and Molecular Diagnostics. Symmetria Editions Kaplan A. Clinical Chemistry. Paschalidis Editions

- Related academic journals:

Tietz Textbook of Clinical Chemistry and Molecular Diagnostics (TIETZ TEXTBOOK OF CLINICAL CHEMISTRY) Carl A. Burtis, Edward R. Ashwood, David E. Bruns