COURSE OUTLINE

1. GENERAL

SCHOOL	SCHOOL OF NATURAL SCIENCES		
ACADEMIC UNIT	DEPARTMENT OF BIOLOGY		
LEVEL OF STUDIES	UNDERGRADUATE		
COURSE CODE	**BIO_ΕΘΚ**	**SEMESTER**	**7**
COURSE TITLE	SELECTED TOPICS IN CELL BIOLOGY		

INDEPENDENT TEACHING ACTIVITIES	**WEEKLY TEACHING HOURS**	**CREDITS**
Lectures	2	3

COURSE TYPE	Scientific specialized background
PREREQUISITE COURSES	Formally, there are no prerequisite courses. However, previous knowledge of Cell and Molecular Biology are recommended.
LANGUAGE OF INSTRUCTION and EXAMINATIONS	Greek
IS THE COURSE OFFERED TO ERASMUS STUDENTS	Yes
COURSE WEBSITE (URL)	

2. LEARNING OUTCOMES

Learning outcomes
The students will explore various aspects of Cell Biology including cancer, apoptosis, stem cells and their applications, the immune system and its role in host defence, as well as the utilization of different cell types in techniques and methodologies in the fields of genetic toxicology and environmental toxicology & mutagenesis
General Competences
Search for, analysis and synthesis of data and information, with the use of the necessary technology. Decision-making.

3. SYLLABUS

Introduction -Cells. Cell Death. Cellular Responses against Transplants and Tumors. Intracellular and Extracellular Communication. Vaccines. Cellular Therapies. Cell Cultures - Lymphocytes - Methods. Red Blood Cells - In vivo Studies - Methods.

4. TEACHING and LEARNING METHODS - EVALUATION

DELIVERY	Face to face lectures in classroom.	
USE OF INFORMATION AND COMMUNICATIONS TECHNOLOGY	Communication via eclass. Lectures with PowerPoint presentation and online videos.	
TEACHING METHODS	***Activity***	***Semester workload***
	Lectures	26
	Study	49
	Course total	**75**
STUDENT PERFORMANCE EVALUATION	Written exams at the end of the semester. Grading scale: 1-10. Passing grade: 5	

5. ATTACHED BIBLIOGRAPHY

Suggested bibliography:

- Cooper G.M. (2021) Το Κύτταρο: Μια Μοριακή Προσέγγιση, Έκδοση: 8η/2021, ISBN: 9786185135201, Διαθέτης (Εκδότης): ΑΚΑΔΗΜΑΪΚΕΣ ΕΚΔΟΣΕΙΣ Ι. ΜΠΑΣΔΡΑ & ΣΙΑ Ο.Ε. Κωδικός

Βιβλίου στον Εύδοξο: 102123643

- Alberts B., Hopkin K., Johnson A., Morgan D., Raff M., Roberts K., Walter P. (2021) Βασικές Αρχές Κυτταρικής Βιολογίας, ISBN: 978-9925-588-14-5, ΙΑΤΡΙΚΕΣ ΕΚΔΟΣΕΙΣ Π. Χ. ΠΑΣΧΑΛΙΔΗΣ. Κωδικός στον Εύδοξο: 102069992

Related academic journals: