COURSE OUTLINE

GENERAL

SCHOOL	School of Science				
ACADEMIC UNIT	Department of Mathematics				
LEVEL OF STUDIES	Undergraduate				
COURSE CODE	MAE714		SEMESTER	Wi	nter (7 th)
COURSE TITLE	Set Theory				
INDEPENDENT TEACHING ACTIVITIES					
if credits are awarded for separate components of the		WEEKLY			
course, e.g. lectures, laboratory ex	kercises, etc.	TEACHING	6	CREDITS	
are awarded for the whole of the	are awarded for the whole of the course, give the weekly HOURS				
teaching hours and the total credits					
			3		6
Add rows if necessary. The organisation of teaching and the					
teaching methods used are described in detail at (d).					
COURSE TYPE	General bac	ckground			
general background,					
special background, specialised					
general knowledge, skills					
development					
PREREQUISITE COURSES:					
LANGUAGE OF INSTRUCTION	Greek				
and EXAMINATIONS:					
IS THE COURSE OFFERED TO					
ERASMUS STUDENTS					
COURSE WEBSITE (URL)	Through the platform "E-course" of the University of				
	Ioannina				

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

Students will acquire knowledge on the construction of the sets of numbers (Natural, rational and Real numbers), also of an axiomatic set theory (Zermelo-Frankel theory or the Von Neumann – Bernays – Godel theory).

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	Project planning and management
and information, with the use of the	Respect for difference and multiculturalism
necessary technology	Respect for the natural environment
Adapting to new situations	Showing social, professional and ethical
Decision-making	responsibility and sensitivity to gender issues
Working independently	Criticism and self-criticism
Team work	Production of free, creative and inductive
Working in an international environment	thinking
Working in an interdisciplinary	Others
environment	
Production of new research ideas	

Working independently Team work Production of free, creative and inductive thinking

SYLLABUS

the construction of the sets of numbers (Natural, rational and Real numbers),. Axioms for the Zermelo-Frankel theory, or the Von Neumann – Bernays – Godel theory.

TEACHING and LEARNING METHODS - EVALUATION

DELIVERY	Lectures \ Presentations in c	lass
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	Lectures	45
teaching are described in detail.	Assignments/Essays	15
Lectures, seminars, laboratory	Individual study	90
practice, fieldwork, study and		

analysis of bibliography, tutorials,	Course total	150
placements, clinical practice, art		
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		
STUDENT PERFORMANCE	Students choose evaluation	by one or both of the
EVALUATION	following:	
Description of the evaluation	1. Class presentation -	- Essays – Assingments
procedure	2. Final Written Exami	nation
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, other	In case that a student partic grade is the maximum of the	ipates to both, the final e two grades.
Specifically-defined evaluation criteria are given, and if and where they are accessible to students.	Evaluation criteria and all st procedure are accessible to platform "E-course" of the U	eps of the evaluation students through the Jniversity of Ioannina.

ATTACHED BIBLIOGRAPHY