

COURSE OUTLINE

1. OVERVIEW

FACULTY	FACULTY OF HUMANITIES AND SOCIAL SCIENCES		
SECTION	DEPARTMENT OF PRIMARY EDUCATION		
LEVEL OF STUDY	UNDERGRADUATE		
COURSE TITLE			
Mathematics II			
COURSE CODE	MA0202	SEMESTER	2
HOURS per WEEK	6	ECTS	6
COURSE CATEGORY	Compulsory	COURSE TYPE	Scientific subject
LANGUAGE OF INSTRUCTION AND EXAMINATIONS	Modern Greek	PREREQUISITES	none
OFFERED TO ERASMUS	YES	ECLASS PAGE	https://eclass.uth.gr/courses/PRE_U_203/

2. LEARNING OUTCOMES

Learning Outcomes
Upon successful completion of the course, students are expected to be familiar with naïve Set Theory and Euclidean Plane Geometry.
General Competencies
Ability to study independently Analytic and Synthetic thinking Justification - Argumentation

3. CONTENT

Sets. Operations with sets. Relations and functions. Cardinal numbers of sets and in particular of various function sets. Euclidean Plane Geometry: Angles, parallel lines. Plane figures: Triangles, Congruent and similar triangles. Quadrilaterals: parallelograms (rectangles, squares, rhombs) and trapezoids. Polygons. The Circle.
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4. TEACHING AND LEARNING METHODS - ASSESSMENT

TEACHING MODE	In person		
USE OF ICT	Power point if needed, Geogebra, Excell. Communication: Webmail / eClass / MSteams /		
COMPULSORY ATTENDANCE	NO	MAXIMUM NUMBER OF ABSENCES:	
TEACHING ORGANIZATION	Activity		Semester Workload (hours)
	Lectures		78
	Study		68
	Examination		4
	Course total		150
EVALUATION			
	Type	Format	Weighting
	Final written exam	Open-Ended Questions	60%
	Intermediate written examination (mid-term A)	Open-Ended Questions	25%
	Intermediate written examination (mid-term A)	Open-Ended Questions	15%
			100%
	Description of other evaluation method / Evaluation criteria:		

5. RECOMMENDED BIBLIOGRAPHY

Core textbooks (available through the <i>Eudoxus</i> service)
Χατζηκυριάκου, Κ. 2017. Αριθμοί, Σύνολα, Σχήματα: Μαθηματικά για τη δασκάλα και τον δάσκαλο, Θεσσαλονίκη: Εκδόσεις Σοφία (B έκδοση, ανατύπωση με διορθώσεις)
Other books / Notes
Κολέζα, Ε. 2020, Ψηφίδες Σκέψης στα Στοιχειώδη Μαθηματικά. Αριθμητική, Άλγεβρα & Γεωμετρία., Αθήνα: Εκδόσεις Gutenberg
Λεμονίδης, Χ. 2000. Στοιχεία Αριθμητικής και Θεωρίας Αριθμών για το δάσκαλο. Αθήνα: Πατάκης.
Τριανταφυλλίδης, Τρ. & Σδρόλιας, Κ. 2005. Βασικές μαθηματικές έννοιες για τον εκπαιδευτικό της πρωτοβάθμιας εκπαίδευσης. Αθήνα: Τυπωθήτω-Γ. Δαρδανός
Bunt, L.B.N. & Jones, Ph. S. & Bedient, J.D. 1999. Οι Ιστορικές Ρίζες των Στοιχειωδών Μαθηματικών. Εκδόσεις Γ.Α. Πνευματικού.