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Karlovasi, 04.10.2022

DEPARTMENT OF MATHEMATICS
SCHOOL OF MATHEMATICS

Spring/Autumn semester - Academic Year 2022-2023

Courses offered							
Bachelor's degree							
Course Code	Course Title	Semester	ECTS	Study Cycle	Language of Instruction	Reading Courses	Language(s) of Reading Courses
	SETS AND NUMBERS	1	9	B.D.*	Greek	√	English
	CALCULUS I	1	9	B.D.*	Greek	√	English
	FUNDAMENTALS OF MATHEMATICS	1	9	B.D.*	Greek	√	English
	INTRODUCTION TO ANALYTIC GEOMETRY	1	4,5	B.D.*	Greek	√	English
	TOPOLOGY OF METRIC SPACES	3	9	B.D.*	Greek	√	English
	CALCULUS III	3	9	B.D.*	Greek	√	English
	LINEAR ALGEBRA II	3	9	B.D.*	Greek	√	English
	PROGRAMMING LANGUAGES	3	6	B.D.*	Greek	√	English
	DISCRETE MATHEMATICS	3	6	B.D.*	Greek	√	English

PHYSICS I	5	9	B.D.*	Greek	√	English
ANALYSIS	5	9	B.D.*	Greek	√	English
NUMERICAL ANALYSIS	5	6	B.D.*	Greek	√	English
NUMBER THEORY	5	6	B.D.*	Greek	√	English
HISTORY OF EUCLIDEAN AND NON-EUCLIDEAN GEOMETRIES	5	6	B.D.*	Greek	√	English
ORDINARY DIFFERENTIAL EQUATIONS II	5	4,5	B.D.*	Greek	√	English
FUNDAMENTAL SET THEORY	5	4,5	B.D.*	Greek	√	English
MATHEMATICAL SOFTWARE	5	4,5	B.D.*	Greek	√	English
PARTIAL DIFFERENTIAL EQUATIONS	7	6	B.D.*	Greek	√	English
STATISTICS	7	6	B.D.*	Greek	√	English
TOPICS IN ANALYSIS	7	4,5	B.D.*	Greek	√	English
ADVANCED PROGRAMMING LANGUAGES	7	6	B.D.*	Greek	√	English
NEW TECHNOLOGIES IN EDUCATION	7	6	B.D.*	Greek	√	English
SCIENTIFIC COMPUTING	7	6	B.D.*	Greek	√	English
CODING THEORY	7	4,5	B.D.*	Greek	√	English
CALCULUS II	2	9	B.D.*	Greek	√	English
LINEAR ALGEBRA I	2	9	B.D.*	Greek	√	English
INTRODUCTION TO INFORMATICS	2	9	B.D.*	Greek	√	English
CALCULUS IV	4	9	B.D.*	Greek	√	English
ORDINARY DIFFERENTIAL EQUATION I	4	9	B.D.*	Greek	√	English
ALGEBRA	4	9	B.D.*	Greek	√	English
LINEAR PROGRAMMING	4	6	B.D.*	Greek	√	English
AXIOMATIC GEOMETRY	4	6	B.D.*	Greek	√	English
PROBABILITIES I	6	9	B.D.*	Greek	√	English
COMPLEX ANALYSIS	6	9	B.D.*	Greek	√	English
DIFFERENTIAL GEOMETRY	6	9	B.D.*	Greek	√	English

	CLASSICAL MECHANICS	6	6	B.D.*	Greek	√	English
	GALOIS THEORY	6	6	B.D.*	Greek	√	English
	MATHEMATICAL LOGIC	6	6	B.D.*	Greek	√	English
	CRYPTOGRAPHY	6	6	B.D.*	Greek	√	English
	DIDACTIC OF EUCLIDEAN GEOMETRY	6	6	B.D.*	Greek	√	English
	GENERAL TOPOLOGY	8	6	B.D.*	Greek	√	English
	FUNCTIONAL ANALYSIS	8	6	B.D.*	Greek	√	English
	STOCHASTIC PROCESSES	8	6	B.D.*	Greek	√	English
	PHYSICS II	8	6	B.D.*	Greek	√	English
	HISTORY OF MATHEMATICAL EDUCATION	8	4,5	B.D.*	Greek	√	English
	TOPICS IN ALGEBRA	8	4,5	B.D.*	Greek	√	English
	THEORY AND PRACTICE IN MATHEMATICS TEACHING	8	4,5	B.D.*	Greek	√	English

Master of science degree

Course Code	Course Title	Semester	ECTS	Study Cycle	Language of Instruction	Reading Courses	Language(s) of Reading Courses
	DIFFERENTIAL GEOMETRY	Autumn semester	7.5	M.Sc.	Greek	√	English
	OPERATOR THEORY	Autumn semester	7.5	M.Sc.	Greek	√	English
	GROUP THEORY	Autumn semester	7.5	M.Sc.	Greek	√	English
	FUNCTIONAL ANALYSIS	Spring semester	7.5	M.Sc.	Greek	√	English
	PARTIAL DIFFERENTIAL EQUATIONS	Autumn semester	7.5	M.Sc.	Greek	√	English
	STOCHASTIC MODELING	Autumn semester	7.5	M.Sc.	Greek	√	English
	NUMERICAL ANALYSIS	Autumn semester	7.5	M.Sc.	Greek	√	English
	HISTORY OF MATHEMATICS	Autumn semester	7.5	M.Sc.	Greek	√	English
	TOPOLOGY	Spring semester	7.5	M.Sc.	Greek	√	English
	ALGEBRAIC TOPOLOGY	Spring semester	7.5	M.Sc.	Greek	√	English

	DYNAMICAL SYSTEMS	Spring semester	7.5	M.Sc.	Greek	√	English
	MATHEMATICAL MODELS IN PHYSICAL SCIENCES	Spring semester	7.5	M.Sc.	Greek	√	English
	APPLIED MATHEMATICAL METHODS	Spring semester	7.5	M.Sc.	Greek	√	English
	DISCRETE MATHEMATICS	Autumn semester	7,5	M.Sc.	Greek	√	English

*B.D.: Bachelor's degree

**M.Sc.: Master of science degree