



ELEMENTARY MATHEMATICS

Enrollment year	2015/2016
Academic year	2015/2016
Regulations	DM270
Academic discipline	MAT/04 (COMPLEMENTARY MATHEMATICS)
Department	DEPARTMENT OF MATHEMATICS "FELICE CASORATI"
Course	MATHEMATICS
Curriculum	PERCORSO COMUNE
Year of study	1°
Period	1st semester (01/10/2015 - 15/01/2016)
ECTS	6
Lesson hours	48 lesson hours
Language	ITALIAN
Activity type	ORAL TEST
Teacher	ANTONINI SAMUELE (titolare) - 6 ECTS
Prerequisites	The contents of a basic course of algebra.
Learning outcomes	The course aims to provide the tools for a critical analysis of some aspects of arithmetic and algebra in view of their didactical use
Course contents	<p>After mentioning the set theory in its historical evolution and the Zermelo-Fraenkel axiomatic system, different possibilities of introductions of numerical sets (natural, integer, rational, real) are examined and compared. The course also deals with some aspects of arithmetics of natural numbers (including divisibility and prime numbers), the study of numbering systems, polynomials with coefficients in a field and their properties, algebraic and transcendent extensions of the rational field and some elements of elementary number theory.</p> <p>Some subjects are also examined from a didactical point of view.</p>

Teaching methods

**Reccomended or required
readings**

Written and oral exam

Further information

Written and oral exam

