General Information	
Academic subject	Financial mathematics
Degree course	Marketing and Business Communication
Curriculum	
ECTS credits	6
Compulsory attendance	No
Language	Italian

Subject teacher	Name Surname	Mail address	SSD
	Sabrina Diomede	sabrina.diomede@uniba.it	SECS-S/06

ECTS credits details	6		
Basic teaching activities	lectures		

Class schedule	
Period	II
Year	2
Type of class	Lecture-

Time management	
Hours	42
Hours of lectures	34
Tutorials and lab	8

Academic calendar	
Class begins	07/03/2017
Class ends	05/05/2017

Syllabus	
Prerequisites/requirements	Completion of the examination "Mathematics for economics"
Expected learning outcomes	Demonstrate understanding of basic concepts in financial transactions. Demonstrate capability to estimate the value of annuities Use appropriate terminology to convey basic financial tools and notions. Demonstrate basic knowledge of preference relations and utility functions
Contents	•
Course program	**Decision making under certainty** Financial operations. Discounting and capitalization. Application to the estimate of some indexes in marketing. Compound and simple interest formulae. Zero coupon and fixed rate bonds. Estimating the value of financial operations. Hints on numerical series; geometric series. Annuities (classification, ordinary and deferred annuities. ordinary perpetuities, present and future value of annuities) Equivalent interest rates.

	Amortization (preamortization, amortization schedule with equal principal payments or with constant payments) **Choices under uncertainty** Rational preferences Representation of choice structure by means of utility functions Pareto dominance
Bibliography	F. Cacciafesta: Matematica finanziaria (classica e moderna) Giappichelli Ed. Torino. (ch. 1, par. 1-5), ch.2, (par. 1-5), ch. 3 (par. 1,2), ch. 4 (par. 1-7)ch. 5 (par. 1-5)
Notes	
Teaching methods	Lectures
Assessment methods (indicate at least the type written, oral, other)	Written assessment with three questions.
Evaluation criteria (Explain for each expected learning outcome what a student has to know, or is able to do, and how many levels of achievement there are.	The answers will be evaluated by: completeness of presentation with respect to the contents of the course , correctness of mathematical reasoning, articulation of presentation, command of mathematical and technical language.
Further information	