General information		
Academic subject	**HISTORY AND FOUNDATIONS OF MATHEMATICS**	
Degree course	Mathematics	
Academic Year	2	
European Credit Transfer and Accumulation System (ECTS)		7
Language	Italian	
Academic calendar (starting and ending date)	2nd period (28 February 2022 – 27 May 2022)	
Attendance	compulsory	

Professor/ Lecturer	
Name and Surname	Margherita Barile
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Department and address	Dipartimento di Matematica, 2nd floor, room 23
Virtual headquarters	Microsoft Teams – code: j8s88ed
Tutoring (time and day)	By appointment: a virtual meeting on Microsoft Teams can be requested by e-mail.

Syllabus	
Learning Objectives	Understanding the origin and the evolution of mathematical notions
Course prerequisites	Fundamentals of algebra, calculus, geometry
Contents	Selected topics in the history of algebra, calculus and geometry, from ancient Mesopotamia to the 19th century
Books and bibliography	Further readings recommended during the lectures
Additional materials	Additional material will be uploaded to Microsoft Teams

Work schedule			
Total	Lectures	Hands on (Laboratory, working groups, seminars, field trips)	Out-of-class study hours/ Self-study hours
Hours			
60	52	8	100
ECTS			
7	6,5	0,5	

Teaching strategy	Blended learning
Expected learning outcomes	
Knowledge and understanding on:	○ Placing a mathematical notion into a historical perspective
Applying knowledge and understanding on:	○ Applying a history-based approach to mathematical education
Soft skills	• Making informed judgments and choices ○ Comparing different views of the same mathematical object • Communicating knowledge and understanding ○ Raising public awareness in mathematics • Capacities to continue learning ○ Learning by reading original mathematical works

Assessment and feedback	
Methods of assessment	Oral presentation of an original mathematical text from a linguistic, historical and philosophical point of view (45-60 minutes)
Evaluation criteria	• Knowledge and understanding ○ Being aware that mathematics is an evolving science • Applying knowledge and understanding ○ Placing an original mathematical work in its historical context • Autonomy of judgment ○ Analysing an original mathematical work critically • Communicating knowledge and understanding ○ Explaining ancient mathematical texts • Capacities to continue learning ○ Recognizing the relevance of language in ancient mathematical texts
Criteria for assessment and attribution of the final mark	The passing grade range is 18-30.
Additional information	