Content

Course Code	Course Name	Semester	Theory	Practice	Lab	Credit	ECTS
MATH 536	Teaching Experience	1	2	0	0	2	5

Prerequisites	
Admission Requirements	

Language of Instruction	Turkish
Course Type	Compulsory
Course Level	Masters Degree
Objective	Teachng the history and philosophy of mathematics

Content	Weeks Subjects 1 Platonism 2 Picture proofs 3 4 Hilbert and Gödel 5 Knots and notation 6 What is a definition? 7 Constructive approach 8 Midterm exam 9 10 Computation, proof and 11 How to refute the 12 Calling the bluff 13 14 What is applied mathematics? Proofs, pictures and procedures conjecture continuum hypothesis Euler and his contributions to mathematics Gauss and his contributions to mathematics

References	W. Dunham, Journey through Genius: The Great Theorems of Mathematics, Penguin, 1991 J. R. Brown, Philosophy of Mathematics: A Contemporary Introduction to the World of Proofs and Pictures, Routledge, 2008

Theory Topics

Week	Weekly Contents
1	1 Platonism
2	2 Picture proofs
3	What is applied mathematics?
4	4 Hilbert and Gödel
5	5 Knots and notation
6	6 What is a definition?
7	7 Constructive approach
8	8 Midterm exam
9	Proofs, pictures and procedures
10	Computation, proof and conjecture
11	How to refute the continuum hypothesis
12	Calling the bluff
13	Euler and his contributions to mathematics
14	Gauss and his contributions to mathematics