Course Syllabus

Code - Course Title	**MTE524 - History and Philosophy of Mathematics**
Course Type	II. SEMESTER
Laboratory + Practice	3+0
ECTS	**6.0**
Language of Instruction	Türkçe
Course Type	Elective Courses
Course Instructor(s)	PROF. DR. ABDULKADİR ERDOĞAN

Mode of Delivery	The mode of delivery of this course is online.
Prerequisites	There is no prerequisites for this course
Courses Recomended	None
Recommended Resources	Cemal YILDIRIM (1996). Matematiksel Düşünme, Remzi KitabeviBurton, D. (2011). Matematik tarihi: Giriş. Soner Durmuş (Çeviri Ed.). İstanbul: Nobel Yaşam, 2017
Work Placement	Not Applicable

Course Syllabus

Weeks	Learning Outcomes	Topics	Teaching Methods
Week - 1		Mathematics in early civilizations	
Week - 2		Greek Mathematics	
Week - 3		Mathematics in the Near and Far East	
Week - 4		The Renaissance of Mathematics	
Week - 5		Transition to Contemporary mathematics	
Week - 6		The development of number theory	
Week - 7		The Emergence of Non-Euclidean Geometry	
Week - 8		Mathematical Thinking	
Week - 9		Certainty in mathematics	
Week - 10		Views about the fundamentals of mathematics	
Week - 11		The Periods of Crisis in Mathematics	
Week - 12		The dichotomy of theoretical-applied mathematics	
Week - 13		The role of mathematics in sciences, culture and art	

Course Syllabus

Weeks	Learning Outcomes	Topics	Teaching Methods
Week - 14		The use of the history and philosophy of mathematics in mathematics education.	

Learning Outcomes

#	Learning Outcome
1	Explain the origin and development of mathematics
2	explain the development of main domains of mathematics.
3	explain mathematical thinking.
4	explain different ideas about the fundamentals of mathematics
5	explain the functions of mathematics.
6	Discuss the use of the history and philosophy of mathematics in mathematics education.

Sustainable Development Goals

No content has been provided.

Course Theme

No content has been provided.

AKTS Workload

Activity	Duration (Hour)	Count	Workload
Teorik Derse Katılım	0	0	0
Sınıf Dışı Çalışma (Ön Hazırlık & Pekiştirme Amaçlı)	0	0	0
Ödevler	0	0	0
Proje - Rapor - Sunum Hazırlama	0	0	0
Ara Sınav Hazırlığı (sınav süresi dahil)	0	0	0
Final Sınavı Hazırlığı (sınav süresi dahil)	0	0	0
Uygulama (Laboratuvar, Müzik/Enstrüman Uygulaması, Atölye/Saha Çalışması vb.)	0	0	0
Staj Uygulaması	0	0	0
		Calculated ECTS	**0**

Assessment Method and Passing Requirements

No content has been provided.