Course Syllabus

Code - Course Title	**MTE509 - Mathematical Thinking**
Course Type	II. SEMESTER
Laboratory + Practice	3+0
ECTS	**6.0**
Language of Instruction	Türkçe
Course Type	Elective Courses
Course Instructor(s)	PROF. DR. TANGÜL KABAEL

Mode of Delivery	The mode of delivery of this course is Face to face
Prerequisites	There is no prerequisite or co-requisite for this course.
Courses Recomended	There is no recommended optional programme component for this course.
Work Placement	N/A

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Weeks	Learning Outcomes	Topics	Teaching Methods
Week - 1		Structure of mathematics	
Week - 2		Conceptual intuitive	
Week - 3		concept image-concept definition	
Week - 4		different mathematical minds	
Week - 5		reconstruction in the mind	
Week - 6		representations and representation process	
Week - 7		generalization and abstraction	
Week - 8		mathematical proof	
Week - 9		methods of mathematical proof	
Week - 10		Piagets" reflective abstraction	
Week - 11		Piagets" reflective abstraction	
Week - 12		Some papers on Piagets" learning theory	
Week - 13		Some papers on Piagets" learning theory	
Week - 14		Some papers on Piagets" learning theory	

Learning Outcomes

#	Learning Outcome
1	.Can explain conceptual intuition and definition of a concept.
2	Can design some teaching activities to prompt students to relate their conceptual intuitive and concept definitions.
3	Can explain transformation and reconstruct in the mind in the process of cognitive development.
4	Can explain the representation process.
5	Can explain the processes of generalization and abstraction.
6	Can explain the process of mathematical proof.
7	Can explain the Piaget’s reflective abstraction.

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.