Course Syllabus

Code - Course Title	**MTE517 - Teaching Geometry**
Course Type	I. SEMESTER
Laboratory + Practice	3+0
ECTS	**6.0**
Language of Instruction	Türkçe
Course Type	Elective Courses
Course Instructor(s)	PROF. DR. TUBA ADA

Mode of Delivery	Distance Education
Prerequisites	There is no prerequisite or co-requisite for this course.
Courses Recomended	There is no recommended optional programme component for this course.
Recommended Resources	Altun, M. (2015). Ortaokullarda (5, 6, 7 ve 8. sınıflarda) matematik öğretimi. Bursa: Aktüel.Altun, M. (2016). Liselerde matematik öğretimi. Bursa: Aktüel.Altun, M. (2015). İlkokullarda 1,2,3,4 Sınıflarda Matematik Öğretimi. Bursa: AktüelVan De Walle, J. A., Karp, K. S., & Bay-Williams, J. M. (2012). İlkokul ve ortaokul matematiği gelişimsel yaklaşımla öğretim. Çev. Edit. Soner Durmuş), Ankara: Nobel Akademik Yayıncılık.Wallace, E. C., & West, S. F. (2015). Roads to geometry. Waveland Press.Sinclair, N., Pimm, D., & Skelin, M. (2012). Developing essential understanding of geometry for teaching mathematics in grades 6-8. Reston, VA: National Council of Teachers of Mathematics.Johnston-Wilder, S., & Mason, J. (Eds.). (2005). Developing thinking in geometry. Sage.Hızarcı, S., Kaplan, A., İpek, A. S., & Işık, C. (2003). Euclid geometri ve özel öğretimi. Erzurum: Aktif Yayınevi.
Work Placement	N/A

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Weeks	Learning Outcomes	Topics	Teaching Methods
Week - 1		Building of Geometry: What is Geometry?, How did geometry come into being and develop?	
Week - 2		Basic geometry concepts (Point, Line, Plane)	
Week - 3		Basic geometric drawings	
Week - 4		The Place of Geometry in the Real World: Comparison of Different Geometries	
Week - 5		Geometric Thinking: Developing of Thinking Geometry	
Week - 6		Van Hiele levels of Geometry Learning	
Week - 7		Piage Geometry Understanding Levels	
Week - 8		Geometric Reasoning	
Week - 9		The Theory of Figural Concepts	

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Weeks	Learning Outcomes	Topics	Teaching Methods
Week - 10		Visualization, Construction, Reasoning Processes	
Week - 11		Perceptual processes	
Week - 12		School Geometry (Examination of Primary School Mathematics Curriculum)	
Week - 13		Examination of Secondary School Mathematics Curriculum	
Week - 14		Examination of High School Mathematics Curriculum	

Learning Outcomes

#	Learning Outcome
1	Explains the importance and requirement of geometry.
2	Explains geometric concepts and systems.
3	Builds basic geometric drawings.
4	Associates geometry with everyday life.
5	Explains the development of geometric thinking in children.
6	Explains the processes of visualization, reasoning and construction .
7	Evaluates the teaching of geometry curriculum

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.

Assessment Method and Passing Requirements	Quamtity	Percentage (%)
1.Midterm Exam	1	40
Final Exam	1	60
	Sum (%)	**100**