Course Syllabus

Code - Course Title	**MTE534 - Problem Solving Strategies in Mathematics**
Course Type	I. SEMESTER
Laboratory + Practice	3+0
ECTS	**6.0**
Language of Instruction	Türkçe
Course Type	Elective Courses
Course Instructor(s)	PROF. DR. NESLİHAN UYANIK

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	None
Recommended Resources	- Posamentier S.A., ve Krulik S. (2008). Problem-Solving Stratejies for Efficient and Elegant Solutions Grades 6-12 A Resource for the Mathematics Teacher. California: Corwin Press- Posamentier S.A., ve Krulik S. (2008). Matematikte Problem Çözme 3-6. Sınıflar-Derinlemesine Anlayış için Güçlü Stratejiler. California: Corwin Press (Çevirenler: Levent Akgün, Tuğrul Kar ve M. Fatih Öçal)
Work Placement	N/A

Course Syllabus

Weeks	Learning Outcomes	Topics	Teaching Methods
Week - 1		Objective, Content, Resources and Introduction	
Week - 2		Problem Types	
Week - 3		Problem Solving Process	
Week - 4		Problem Solving Teaching	
Week - 5		Finding a Pattern Strategy	
Week - 6		Considering Extreme Cases Strategy	
Week - 7		Making a Drawing (Visual Representation) Strategy	
Week - 8		Intelligent Guessing and Testing (Including Approximation) Strategy	
Week - 9		Problem-Based Instruction	
Week - 10		Organizing Data Strategy	
Week - 11		Logical Reasoning Strategy	
Week - 12		Acting It Out or Simulation Strategy	

Course Syllabus

Weeks	Learning Outcomes	Topics	Teaching Methods
Week - 13		Investigation of Research on Problem Solving Teaching	
Week - 14		General Evaluation of Research Project Suggestions and Course	

Learning Outcomes

#	Learning Outcome
1	Understand problem information
2	Comprehend the place and importance of problem solving in mathematics education
3	Understand problem solving strategies
4	Apply problem solving strategies to the field
5	Adapt problem solving strategies to daily life situations
6	Pose new problems with the knowledge of problem development

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.