Course Syllabus

Code - Course Title	**MAT816 - Abstract Mathematics**
Course Type	II. SEMESTER
Laboratory + Practice	3+0
ECTS	**5.0**
Language of Instruction	Türkçe
Course Type	Required Courses

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
Work Placement	Not Applicable

Course Syllabus

Weeks	Learning Outcomes	Topics	Teaching Methods
Week - 1		Propositions and algebra of propositions	
Week - 2		Exercises	
Week - 3		Sets and algebra of sets	
Week - 4		Exercises	
Week - 5		Set families	
Week - 6		Functions and function operations	
Week - 7		Functions and function operations	
Week - 8		Functions and function operations	
Week - 9		Relations and their types	
Week - 10		Relations and their types	
Week - 11		Relations and their types	
Week - 12		Equivalence relations, Partially ordered relations	
Week - 13		completely ordered relations	
Week - 14		completely ordered relations	

Learning Outcomes

#	Learning Outcome
1	Explain the concepts of axiom, theorem, propositional logic, mathematical proof methods, symbolic logic, universal and existential quantifiers, set, cartesian product of sets, relation and function.
2	Interpret the concepts of propositional logic, mathematical proof methods, symbolic logic, set, cartesian product, relation and function.
3	Relate equivalence classes and numbers.

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.