Course Syllabus

Code - Course Title	**İST412 - Fuzzy Logic**
Course Type	VIII. SEMESTER
Laboratory + Practice	2+0
ECTS	**3.0**
Language of Instruction	Türkçe
Course Type	Area Elective Courses
Course Instructor(s)	DOÇ. DR. SEVİL ŞENTÜRK

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.
Recommended Resources	Buckley,J.,J. (2204) Fuzzy Statistics.Springer.
Work Placement	N/A

Course Syllabus

Weeks	Learning Outcomes	Topics	Teaching Methods
Week - 1		Introduction fuzzy logic.	
Week - 2		Fuzzy Logic and Relationship with Statistic.	
Week - 3		Fuzzy numbers.	
Week - 4		Fuzzy Logic Set Theory.	
Week - 5		Fuzzy Arithmetic.	
Week - 6		Fuzzy Arithmetic.	
Week - 7		Fuzzy functions.	
Week - 8		Fuzzy Logic Membership Functions.	
Week - 9		Fuzzy Logic Inference System.	
Week - 10		Mamdani Fuzzy Model.	
Week - 11		Sgeno ve Tskamoto Fuzzy Model.	
Week - 12		Sgeno ve Tskamoto Fuzzy Model.	
Week - 13		Application fuzzy logic with Matlab.	
Week - 14		Application Samples.	

Learning Outcomes

#	Learning Outcome
1	gain the main subject of fuzzy sets
2	gain the methodsof fuzzy logic.
3	use the fuzzy set theory on the statistical method which is given.

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	20
Final Exam	1	50
Homework	1	30
	Sum (%)	**100**