Course Syllabus

Code - Course Title	**SAY529 - R Programming**
Course Type	I. SEMESTER
Laboratory + Practice	3+0
ECTS	**6.0**
Language of Instruction	Türkçe
Course Type	Elective Courses
Course Instructor(s)	PROF. DR. FİKRET ER

Mode of Delivery	Face to face
Prerequisites	There is no prerequisite or co-requisite for this course.
Courses Recomended	Operations Research
Recommended Resources	Solution of optimization problems with R, R programming
Work Placement	N/A

Course Syllabus

Weeks	Learning Outcomes	Topics	Teaching Methods
Week - 1		Download R and Rstudio	
Week - 2		Help Pages and R concepts	
Week - 3		R Basics; Variables, Vectors, Vector operations, Math operations,	
Week - 4		Data structures in R; Arrays and Matrices, Lists	
Week - 5		Data structures in R; Arrays and Matrices, Lists, examples	
Week - 6		Working With Data in R, Reading CSV and Excel Files, Reading text files	
Week - 7		Application to read data file	
Week - 8		Functions in R	
Week - 9		Conditions and Loops; İf and İf-else, loops,	
Week - 10		Applications conditions and loops	
Week - 11		R package install and quick list of useful R packages.	
Week - 12		Solution of optimization problems with R	
Week - 13		Solution of optimization problems with R	
Week - 14		Solution of optimization problems with R	

Learning Outcomes

#	Learning Outcome
1	Writes code with R programming
2	Solves optimization problems with R programming
3	It can install and run the packages in the R programming.

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.