Course Syllabus

Code - Course Title	**BVA207 - Data Visualization**
Course Type	III. SEMESTER
Laboratory + Practice	3+0
ECTS	**5.0**
Language of Instruction	Türkçe
Course Type	Required Courses
Course Instructor(s)	ÖĞR. GÖR. DR. BÜLENT BATMAZ

Mode of Delivery	Face to face
Prerequisites	Basic Mathematical Knowledge
Courses Recomended	Basic Mathematical Knowledge
Recommended Resources	Faculty Recommendation
Work Placement	N/A

Course Syllabus

Weeks	Learning Outcomes	Topics	Teaching Methods
Week - 1		Importance and Basic Principles of Data Visualization and Introduction to Popular Data Visualization Tools	
Week - 2		Overview of Visualization Software	
Week - 3		Types of Data	
Week - 4		Finding, Accessing, Cleaning, and Preparing Data Sources for Visualization Projects	
Week - 5		Visual Perception and Cognition	
Week - 6		Color Theory and Color Selection, Choosing Appropriate Chart Types for Different Data Types	
Week - 7		Creating Bar Charts, Line Charts, and Scatter Plots	
Week - 8		Histograms	
Week - 9		Designing Pie Charts	
Week - 10		Customizing Visualizations for Clarity and Effectiveness	
Week - 11		Creating Heatmaps and Treemaps	
Week - 12		Introduction to Interactive Visualizations and Tools	
Week - 13		Dashboard Design Principles	
Week - 14		Effective Data Storytelling	

Learning Outcomes

#	Learning Outcome
1	Proficiency in Visualization Tools
2	Understanding Principles of Visualization
3	Ability to Create Basic and Advanced Visualizations
4	Data Preparation Skills

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.