

**School of Communication / New Media and Communication Systems**

**2024 - 2025 Academic Year**

**DATA JOURNALISM**

**Syllabus**

<b>Course Description</b>					
<b>Name</b>	<b>Code</b>	<b>Semester</b>	<b>T+A Hour</b>	<b>Credit</b>	<b>ECTS</b>
DATA JOURNALISM	YMİ4110456	Fall Semester	3+0	3	5
<b>Prerequisites Courses</b>					
<b>Recommended Elective Courses</b>					
<b>Language of Instruction</b>	Turkish				
<b>Course Level</b>	First Cycle (Bachelor's Degree)				
<b>Course Type</b>	Elective				
<b>Course Coordinator</b>	Assoc.Prof. Başak GEZMEN				
<b>Name of Lecturer(s)</b>	Assist.Prof. Alaattin ASLAN				
<b>Assistant(s)</b>					
<b>Aim</b>	The aim of Data Journalism course is to understand the process of finding, data gathering, data cleaning, data analysis, data visualization in the basic stages of this field.				
<b>Course Content</b>	This course contains; Definition / History of Data Journalism, Finding a Story with Data - How To, Data Scraping, Introduction to Data Visualization Tools, Basic Statistics and Working Practices in Excel, Right to Information Request, Digital Content Verification, Open Data Give Ethics, Open Dta and Ethic, Machine Readability of Open Data, Data Research Techniques, Group Project Homework, Solo Project, Project presentations.				
<b>Course Learning Outcomes</b>			<b>Teaching Methods</b>	<b>Assessment Methods</b>	
Defines concepts related to data journalism journalism describes the data in the world and Turkey			16	A, F, H	
Apply Open Data Creation Practice			16	A, G	
Explain the use of data in news centers and news. Realizes data usage in news			16	A, F, H	
Performs the basics of design and effective visual communication. Performs data visualization and mapping studies			10, 9	A	
Adopts ethical principles in data acquisition			10, 9	H	
<b>Teaching Methods</b>	10: Discussion Method, 16: Question - Answer Technique, 9: Lecture Method				
<b>Assessment Methods</b>	A: Traditional Written Exam, F: Project Task, G: Quiz, H: Performance Task				
<b>Lecture Schedule</b>					
<b>Sequenc e</b>	<b>Topics</b>	<b>Preliminary Preparation</b>			
1	Definition / History of Data Journalism	Learn the basics of what data journalism is and how it emerged. Do research on key figures in data journalism and their pioneering work. Analyze case studies to understand how data journalism differs from traditional journalism.			
2	Finding a Story with Data - How To	Learn the basic concepts of how to extract stories from data sets. Learn about data analysis and interpretation techniques. Review and analyze examples of successful data stories.			
3	Data Scraping	Learn about data scraping and what tools are used. Learn the basics of HTML and CSS, as these languages are important for understanding the structure of web pages. Practice by working on simple data scraping examples.			
4	Introduction to Data Visualization Tools	Learn the basics and importance of data visualization. Learn about basic data visualization tools and software (e.g. Tableau, Power BI, Google Charts). Practice visualization with simple data sets.			
5	Basic Statistics and Working Practices in Excel	Learn basic statistical concepts (mean, median, mode, standard deviation, etc.)			
6	Right to Information Request, Digital Content Verification	Learn about the right to information and its legal framework. Conduct research on the processes for requesting information and data from public institutions. Learn about digital content verification techniques and tools (e.g. reverse image search, metadata analysis).			
7	Open Data Give Ethics	Learn about open data and the sources from which it can be obtained. Research ethical principles and privacy issues in data use. Conduct case studies on ethical dilemmas and cases related to the use of open data.			
8	Open Dta and Ethic				
10	Machine Readability of Open Data	Makine okunabilir veri formatları (JSON, XML, CSV vb.) hakkında bilgi edinin. Veri setlerinin makine okunabilir olmasının önemi ve avantajları hakkında araştırma yapın. Basit veri dönüşüm araçları ile pratik yaparak veri formatlarını birbirine çevirme deneyimi kazanın.			
11	Data Research Techniques	Veri araştırmasında kullanılan metodolojileri ve teknikleri öğrenin. Veri kaynaklarını nasıl bulacağınız ve değerlendireceğiniz konusunda bilgi edinin. Veri setlerini temizleme, düzenleme ve analiz etme teknikleri üzerinde çalışın.			
12	Group Project Homework				
13	Solo Project				
14	Project presentations				
<b>Evaluation Methods</b>		<b>Weight(%)</b>			
Midterm Exam		40			
General Exam		60			

<b>Resources</b>
1.Kalsın, Berrin. Tüm Boyutlarıyla İnternet Haberciliği, Gece Kitaplığı, 2017. (2)Open Data Institute / <a href="http://theodi.org/">http://theodi.org/</a> (3)Getting Started with Data Journalism /Writing data stories in any size newsroom /by Claire Miller/ <a href="https://leanpub.com/datajournalism">https://leanpub.com/datajournalism</a> (4)Data Journalism HandBook /Edited by Jonathan Gray,Lilliona Bounegry and Lucy Chambers / <a href="http://datajournalismhandbook.org/">http://datajournalismhandbook.org/</a> (5)Data Journalism Heist /by Paul Bradshaw <a href="https://leanpub.com/DataJournalismHeist">https://leanpub.com/DataJournalismHeist</a> Data Journalism: Mapping the Future