

Course Code	Course Name	Semester	Theory	Practice	Lab	Credit	ECTS
JOU308	Data journalism	6	1	2	0	3	4

Prerequisites

Admission Requirements

Language of Instruction English

Course Type Elective

Course Level Bachelor Degree

The Data Journalism course aims to understand practically and theoretically the basic stages of this field, which are data finding, data collection, data cleaning, data analysis, data visualization, and to understand the open data relationship by using the right to information.

In addition, the course emphasizes computer-assisted journalism and data-based journalism as a result of data journalism in the developing Internet world and describes how it plays an essential role in more effective transmission of news in newsrooms as the future of journalism, with developing online open sources, tools and techniques.

Data Types

Open Data, Data Disclosure Methods, and Ethics

Definition/History of Data Journalism - Where It Came From

Definition of Scattered Data, Accuracy of Data

Recognizing and Understanding Data Formats

How to Find Data

Data Sources and Database Management

Finding a Story with Data - How-To

Data Cleaning - How to Make sense of Data

Data Scraping - Websites as a data source

Introduction to Data Visualization Tools (Open Source)

Right Graph by Subject, Selection Map

Basic Statistics and Working Practices in Excel

Relationship between Right to Information Request and Open Data

Resources and Techniques

Social Media Data Analysis / Usage

Verifying Digital Content

Content

AVVG <http://www.avvg.org.tr/yazilar/94-acik-veri-ve-veri-okuryazarligi-egitimleri%C2%A0herkesin-erisimine-acildi.html>

Data Journalism: Inside the global future

<http://www.slideshare.net/mrdamian/data-journalism-inside-the-global-future>

<https://www.amazon.co.uk/d/Books/Data-Journalism-Inside-global-future-Tom-Felle/1845496639>

Data Journalism: Mapping the Future

<http://www.abramis.co.uk/books/bookdetails.php?id=184549616>

Scraping for Journalists

<https://leanpub.com/scrapingforjournalists>

NUMBERS IN THE NEWSROOM: USING MATH AND STATISTICS IN NEWS, SECOND EDITION, E-VERSION

#### References

<http://store.ire.org/products/numbers-in-the-newsroom-using-math-and-statistics-in-news-second-edition-e-version>

Open Data Institute / <http://theodi.org/>

School of Data / <http://schoolofdata.org/>

Getting Started with Data Journalism/Writing data stories in any size newsroom /by Claire Miller/<https://leanpub.com/datajournalism>

Data Journalism HandBook /Edited by Jonathan Gray,Lilliona Bounegrey and Lucy Chambers /<http://datajournalismhandbook.org/>

Data Journalism Heist /by Paul Bradshaw<https://leanpub.com/DataJournalismHeist>

Gazeteciliğin Geleceği:Veri Gazeteciliği-Pınar Dağ <https://docs.google.com/document/d/1ueHNSvev8C5FRf9c-wwf0TrdbTLfrRPYakpphCOj2Ig/edit>

Finding Stories in Spreadsheets

<https://leanpub.com/spreadsheetstories>

#### Theory Topics

#### Week Weekly Contents

- |    |   |
|----|---|
| 1  | Basic Data Concepts                     |
| 2  | Data Research Techniques                |
| 3  | Data Cleaning                           |
| 4  | Data Literacy, Metadata, Open Data      |
| 5  | Effective Utilization Methods of BEH    |
| 6  | Thinking Like a Data Journalist         |
| 7  | What Does Good/Bad Datasets Mean?       |
| 8  | Midterm exam                            |
| 9  | Data Analysis and Interpretation        |
| 10 | Data Visualization Principles           |
| 11 | Data Visualization Applications         |
| 12 | R Visualization for Data Journalism     |
| 13 | Storytelling with Data                  |
| 14 | Presentation of Group and Solo Projects |