

SDJ104: Data Journalism

(Total teaching hours: 32hrs)

Course Objective: Equip students with the ability to collect, analyse, and visualize data to create impactful, data-driven journalistic stories.

Course Outcome: By the end of the course, students will be equipped to use data to uncover trends, create visualizations, and produce impactful journalism that informs and engages readers.

Unit 1: Introduction to Data Journalism

8 hours

- **1.1 Defining Data Journalism:** Understanding its significance in modern reporting.
- **1.2 Types of Data Sources:** Government databases, public records, and online resources.
- **1.3 Tools for Data Collection:** Techniques for gathering data effectively.
- **1.4 Ethics in Data Journalism:** Navigating privacy and data protection.

Unit 2: Data Analysis Techniques

8 hours

- **2.1 Basics of Data Analysis:** Introduction to statistics and analysis methods.
- **2.2 Using Spreadsheets:** Excel for data manipulation and analysis.
- **2.3 Data Visualization Principles:** Best practices for presenting data visually.
- **2.4 Tools for Data Visualization:** Overview of software like Tableau and Infogram.

Unit 3: Writing with Data

8 hours

- **3.1 Crafting Data-Driven Stories:** Techniques for integrating data into narratives.
- **3.2 Simplifying Complex Data:** Making data accessible to audiences.
- **3.3 Ethical Reporting with Data:** Ensuring accuracy and integrity.
- **3.4 Case Studies in Data Journalism:** Analyzing impactful data-driven stories.

Unit 4: Advanced Data Journalism Techniques

8 hours

- **4.1 Interactive Data Stories:** Creating web-based interactive visuals.
- **4.2 Collaboration with Data Scientists:** Working alongside technical experts.
- **4.3 Emerging Trends in Data Journalism:** Future directions and technologies.
- **4.4 Project Development:** Creating a comprehensive data journalism project from scratch



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