

BSCS 404: Data Journalism (3 Cr. Hrs)

Course Objectives:

The course aims at making students capable of:

- Understanding and knowing the data sources for research
- Exploring and cleaning data and applying Data Analysis
- Finding insights and patterns from data and creating Visuals from the data and Storytelling through data

Learning Outcomes:

At the end of this course, the students will be able to:

- Understand Data Management and use data in different Media Platforms
- Apply Data Management Techniques with the help of various Online Tools

Course Contents:

1. Introduction to the course and work plan; Addressing preconceptions and storytelling with data
2. Online Data Resources: Searching and presenting using online resources, Data Mapping and Mining, Google Fusion Tables
3. Introduction to Coding, Programming, working on Spreadsheets, Using MS Excel
4. Finding Local Data Stories, Data Literacy, Analysis and Visualization
5. Types of Data including Big Data, Data as a Character, Finding Data Strategies

6. Data Cleaning, Concept of Outliers, NormalLevel Distribution
7. Data and Visual presentation: Basic of illustration, Visualization tool, Presentation Tools and Tactics, Developing Data Graphics
8. Story Telling and Data: Data for stories Finding Trends, Patterns and Stories, Data in Newsrooms, BeatReporting: Sources and more

Teaching Methodology:

- Lectures
- In-Class Activities
- Written Assignments

Assessment:

- Midterm Assessment
- Formative Assessment (Classroom participation, Attendance, Assignments and Presentations, Attitude and Behavior, Hands-on Activities, Short Tests, Quizzes etc.)
- Final Assessment

Recommended Readings:

“The Data Journalism Handbook” (First Edition)

Weblink: <http://datajournalismhandbook.org/1.0/en/>

“Finding Stories In Spreadsheets” by Paul Bradshaw

“The Functional Art” by Alberto Cairo