COURSE DETAIL

SOCIAL SCIENCE DATA ANALYSIS AND PROGRAMMING
Country Norway
Host Institution University of Oslo
Program(s) University of Oslo
UCEAP Course Level Upper Division
UCEAP Subject Area(s) Computer Science
UCEAP Course Number 104
UCEAP Course Suffix
UCEAP Official Title SOCIAL SCIENCE DATA ANALYSIS AND PROGRAMMING
UCEAP Transcript Title DATA ANALYSIS&PROGM
UCEAP Quarter Units 8.00
UCEAP Semester Units 5.30

Course Description

The course offers an introduction to programming-based problem solving for social scientists. The course introduces a number of problems and solutions in social science data processing with applications in R. The course begins with a number of general programming topics, followed by efficient processing of different data structures and how data can be combined using SQL and Tidyverse. Secondly, the course looks at special challenges related to space and time. The spatial dimension introduces GIS techniques. Towards the end, the course sees how machine text analysis can be used to automate data collection and to look at how we can effectively visualize different types of data. The course provides a good basis for independent work with social science information. The course requires students to have completed a course in research methods and statistics as a prerequisite.

Language(s) of Instruction
English

Host Institution Course Number
STV2020

Host Institution Course Title
SOCIAL SCIENCE DATA ANALYSIS AND PROGRAMMING

Host Institution Course Details
https://www.uio.no/studier/emner/sv/statsvitenskap/STV2020/

Host Institution Campus

Host Institution Faculty
Social Sciences

Host Institution Degree

Host Institution Department
Political Science

Course Last Reviewed

2022-2023

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