COURSE DETAIL

ACTION
Country Netherlands
Host Institution Maastricht University - Center for European Studies
Program(s) Psychology and Neuroscience, Maastricht
UCEAP Course Level Upper Division
UCEAP Subject Area(s) Psychology Health Sciences
UCEAP Course Number 141
UCEAP Course Suffix B
UCEAP Official Title ACTION
UCEAP Transcript Title ACTION
UCEAP Quarter Units 6.00
UCEAP Semester Units

4.00

Course Description

In this course, students investigate how the brain is organized to produce actions that serve particular purposes, focusing primarily on voluntary actions. Such actions involve a motivational component, but also cognitive considerations, attention choices, and motor options. For each of these components, decisions must be made. Students explore the different parts of the brain involved in these decisions, in close collaboration with subcortical structures such as basal ganglia. The corresponding practical for this course is Neuronal Basis of Decision Making where students gain hands-on experience with and reflect critically on (a) the selection and administration of tasks that are used to measure these cognitive processes and (b) the analyses of data sets obtained by using neuroimaging techniques (like EEG). During the practical, students are provided with tests and EEG data sets and work in small groups to analyze the EEG data. Questions raised during the practical are: Which steps are needed while analyzing neuroimaging data? Do different brain states induce different decision-making behaviors? How are differences in neuroimaging data or test performance examined? Students also perform statistical analyzes on EEG data sets and write a brief report.

Language(s) of Instruction
English

Host Institution Course Number
IPN3012B + IPN3156

Host Institution Course Title
ACTION

Host Institution Course Details
https://www.maastrichtuniversity.nl/education/course-finder?search=IPN3012A+

Host Institution Campus

Maastricht University

Host Institution Faculty
Faculty of Psychology and Neuroscience

Host Institution Degree

Host Institution Department
Center for European Studies

Course Last Reviewed
2022-2023

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