COURSE DETAIL

CONNECTING BRAINS AND COMPUTERS: THEORY, PRACTICE, AND APPLICATIONS

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 Computer Science Biological Sciences Bioengineering

UCEAP Course Number
153

UCEAP Course Suffix

UCEAP Official Title
CONNECTING BRAINS AND COMPUTERS: THEORY, PRACTICE, AND APPLICATIONS

UCEAP Transcript Title
BRAINS & COMPUTER

UCEAP Quarter Units
6.00

UCEAP Semester Units
4.00

Course Description

This course introduces the general technical/methodological requirements, problems/challenges, and application possibilities of brain-computer interfacing. Besides attending lectures, in which course participants are provided with basic relevant knowledge by local BCI researchers, students study seminal papers of recent BCI work. Further, discuss the *pros* and *cons* of different functional brain imaging methods employed for BCIs as well as ethical implications and future directions. The practical part of this course includes a demonstration of an fNIRS-BCI experiment. At a later stage of the course, students perform an fNIRS-BCI experiment themselves.

Language(s) of Instruction
English

Host Institution Course Number
PSY3381

Host Institution Course Title
CONNECTING BRAINS AND COMPUTERS: THEORY, PRACTICE AND APPLICATIONS

Host Institution Course Details
https://courserepository.maastrichtuniversity.nl/p/module/EN/CES__PNE/PSY3381

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
2025-2026

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