COURSE DETAIL

COMPUTATIONAL AND COGNITIVE NEUROSCIENCE
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 Biological Sciences
UCEAP Course Number 104
UCEAP Course Suffix
UCEAP Official Title COMPUTATIONAL AND COGNITIVE NEUROSCIENCE
UCEAP Transcript Title COMP & COG NEURO
UCEAP Quarter Units 6.00
UCEAP Semester Units 4.00

Course Description

The course Computational and Cognitive Neuroscience presents an overview of the core topics in cognitive and biological psychology. These topics include (human) perception, learning, memory, planning, problem solving, reasoning, language, speech, and action. Both the functional and neuroanatomical foundations of cognitive faculties are addressed. Several models of cognition and theories of brain function that are of relevance to knowledge engineering are outlined. Several skills trainings are given to train understanding in biological functioning of neuronal communication and functioning of neural networks and genetic algorithms.

Language(s) of Instruction
English

Host Institution Course Number
KEN1210

Host Institution Course Title
COMPUTATIONAL AND COGNITIVE NEUROSCIENCE

Host Institution Course Details
https://courserepository.maastrichtuniversity.nl/p/program/EN/9501

Host Institution Campus
Maastricht University

Host Institution Faculty
Center for European Studies

Host Institution Degree

Host Institution Department
Advanced Computing Sciences

Course Last Reviewed
2025-2026

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