

## COURSE DETAIL

### STRUCTURAL AND FUNCTIONAL NEUROIMAGING

**Country**

Italy

**Host Institution**

University of Padua

**Program(s)**

Psychology and Cognitive Science, Padua

**UCEAP Course Level**

Upper Division

**UCEAP Subject Area(s)**

Psychology

**UCEAP Course Number**

162

**UCEAP Course Suffix****UCEAP Official Title**

STRUCTURAL AND FUNCTIONAL NEUROIMAGING

**UCEAP Transcript Title**

NEUROIMAGING

**UCEAP Quarter Units**

5.00

**UCEAP Semester Units**

3.30

## Course Description

This course offers a study of neuroimaging. The course explores topics including basic methodological notions for the use of neuroimaging techniques as a tool to explore structure and function of the brain; structural techniques such as computational morphometry, diffusion (DTI) and tractography; and functional techniques such as functional magnetic resonance (fMRI), basics of magnetic resonance spectroscopy, and positron emission tomography (PET). The course requires adequate knowledge of brain anatomy and recommends knowledge of the basic concepts of inferential statistics as prerequisites.

### Language(s) of Instruction

English

### Host Institution Course Number

PSP8082603

### Host Institution Course Title

STRUCTURAL AND FUNCTIONAL NEUROIMAGING

### Host Institution Campus

### Host Institution Faculty

Psychology

### Host Institution Degree

Second Cycle Degree in Neuroscience and Neuropsychological Rehabilitation

### Host Institution Department

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