



# UNIVERSITÀ DI PISA

## SENSORY AND COGNITIVE NEUROSCIENCE

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**GUIDO MARCO CICCHINI**

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| Academic year | 2023/24      |
| Course        | NEUROSCIENCE |
| Code          | 467MM        |
| Credits       | 6            |

|  |          |         |       |                                     |
|--|----------|---------|-------|-------------------------------------|
| Modules                                  | Area     | Type    | Hours | Teacher(s)                          |
| SENSORY AND<br>COGNITIVE<br>NEUROSCIENCE | M-PSI/02 | LEZIONI | 48    | PAOLA BINDA<br>GUIDO MARCO CICCHINI |

### Obiettivi di apprendimento

#### *Conoscenze*

The student who completes the course successfully will be able to demonstrate a solid knowledge of the function of the cortical process in human, particularly of the sensory cortices.

#### *Modalità di verifica delle conoscenze*

During the examination the student will be assessed on his/her knowledge and deep understanding of the topics dealt with during the course with a focus on the student's ability to link different topics in a comprehensive view.

#### *Modalità di verifica dei comportamenti*

Recommended reading includes the didactic materials available online for students. Further detailed bibliographic references will be indicated during lessons.

### Indicazioni metodologiche

Frontal lessons

### Programma (contenuti dell'insegnamento)

Psychophysical and behavioural methods? Coding and decoding mechanisms of Sensory Stimuli?  
Higher Cortical Functions and Processing for Visual and Auditory signals; Representation of Space and Time? Representation of number;  
Sensory Motor interactions? Attention? Development and Plasticity of human Sensory System; Blindsight and hemianopia, language, numerical cognition, time perception, endogenous rhythms and synchronization.

### Bibliografia e materiale didattico

Recommended reading includes the didactic materials available online for students. Further detailed bibliographic references will be indicated during lessons (Slides and Reviews articles)

### Modalità d'esame

Oral Examination

### Note

Commissione d'esame (examination committee)  
Paola Binda  
Guido Marco Cicchini

Ultimo aggiornamento 12/09/2023 17:27