

## Module Layout COS523 / Human Perception and Attention

|   |  |                                     |                   |
|---|--|-------------------------------------|-------------------|
| <b>Faculty</b>  | ΣΓΕΕ   | Faculty of Pure and Applied Science |                   |
| <b>Programme of Study</b>                               | COS  | M.Sc. in Cognitive Systems          |                   |
| <b>Module</b>   | COS523   | Human Perception and Attention      |                   |
| <b>Level of Study</b>                                   | <b>Undergraduate</b>                                 |                                     | <b>Graduate</b>   |
|   |  | <b>Master</b>                       | <b>Doctoral</b>   |
|   |  | X                                   |                   |
| <b>Language of Instruction</b>                          | English  |                                     |                   |
| <b>Mode of Delivery</b>                                 | Distance   |                                     |                   |
| <b>Module Type</b>                                      | <b>Required</b>                                      |                                     | <b>Electives</b>  |
|   |  |                                     | X                 |
| <b>Number of Group Consulting Meetings</b>              | <b>Total</b>   | <b>Physical Presence</b>            | <b>Online</b>     |
|   | 12 + 1 revision                                      | -                                   | 12 + 1 revision   |
| <b>Number of Assignments</b>                            | 1 Assignment / Project and 12 Interactive Activities |                                     |                   |
| <b>Final Grade Calculation</b>                          | <b>Interactive Activities</b>                        | <b>Assignment / Project</b>         | <b>Final Exam</b> |
|   | 24 %   | 26 %                                | 50 %              |
| <b>Number of European Credit Transfer System (ECTS)</b> | 10   |                                     |                   |

### Module Description

This course follows-up earlier courses in the Program to provide an in-depth analysis of the cognitive mechanisms of perception and attention. Through the coursework students will learn about different aspects of perception (e.g., perceptual organization, pattern recognition, depth perception) and the various functions and forms of attention (e.g., selective attention, divided attention, sustained attention, visual search). The course will also discuss the neural underpinnings of the two mechanisms as well as various attentional/perceptual disorders and syndromes (e.g., ADHD, visual neglect, different forms of visual agnosia). The importance of attention/perception research for various applications of computer science, engineering, and robotics will be highlighted throughout the course.

### Pre-requisite Modules

### Co-requisite Modules

### Grading Scheme

| Assessment Method        | Percentage on Final Grade | Workload     |              |
|--------------------------|---------------------------|--------------|--------------|
|                          |                           | Hours        | ECTS         |
| Interactive Activities   | 24 %                      | 25-30        | 1            |
| Assignment / Project     | 26 %                      | 50-50        | 2            |
| Final/Repeat Examination | 50 %                      | 3            | -            |
| <b>Total</b>             | <b>100%</b>               | <b>Total</b> | <b>Total</b> |

### Grading Rules and Assessment methods

- Passing rate
  - 50% of the Interactive Activities
  - 50% of the Assignment / Project
  - Students are allowed to participate in the final exam of a Module if they have overall earned the minimum grade ( $\geq 50\%$ ) in both their Assignment / Project and Interactive Activities
  - 50% of the Final Exam

If a student earns a grade with decimal points, then it is rounded to the nearest half unit.