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| **Course title** | Sensation and Perception | | | | | |
| **Course code** | PSY312 | | | | | |
| **Course type** | Elective | | | | | |
| **Level** | Undergraduate | | | | | |
| **Year / Semester** | Year 3 | | | | | |
| **Teacher’s name** | Kyriaki Mikellidou | | | | | |
| **ECTS** | 7.5 | **Lectures / week** | 1 | **Laboratories / week** | | 0 |
| **Course purpose and objectives** | The purpose of this course is to provide students with a comprehensive understanding of the processes involved in sensation and perception, exploring how the human brain processes sensory information to create our perception of the world. Through theoretical knowledge, practical demonstrations, and interactive activities, students will gain insights into the intricate mechanisms that govern how we experience and interpret our environment. | | | | | |
| **Learning outcomes** | The following learning outcomes are expected, where students will:   1. Demonstrate a comprehensive understanding of key concepts and theories related to sensation and perception. 2. Explain sensory transduction, neural processing, and perceptual organization for various sensory modalities. 3. Analyze perceptual illusions and explain their insights into the mechanisms of perception. 4. Apply psychophysical methods to design and conduct experiments investigating sensory thresholds and perceptual phenomena. 5. Evaluate research methodologies used to study sensation and perception, identifying strengths and limitations. | | | | | |
| **Prerequisites** | PSY205 | | **Required** | | No | |
| **Course content** | Through theoretical knowledge, practical demonstrations, and interactive activities, students will gain insights into the intricate mechanisms that govern how we experience and interpret our environment.  Week 1: Introduction to Sensation and Perception  Week 2: Sensory Modalities and Neural Processing  Week 3: Sensory Thresholds and Adaptation  Week 4: Perceptual Organization  Week 5: Perceptual Illusions and Ambiguities  Week 6: Cross-Modal Perception  Week 7: Neural Mechanisms of Perception  Week 8: Research Methods in Sensation and Perception  Week 9: Practical Applications and Real-World Context  Week 10: Ethical Considerations  Week 11: Emerging Trends and Future Directions  Week 12: Final Projects and Presentations | | | | | |
| **Teaching methodology** | Lecture | | | | | |
| **Bibliography** | Goldstein, E. B. (2021). Sensation and Perception (11th ed.). Cengage Learning.  PerceptionWeb. (<https://perceptionweb.com/>): An online resource providing a collection of illusions, demos, and explanations related to visual and auditory perception.  Sensation and Perception Virtual Lab. (<https://psych.hanover.edu/JavaTest/index.html>): Interactive Java applets for various sensation and perception experiments, allowing students to explore concepts online. | | | | | |
| **Assessment** | 1. Midterm & Final Exam (30% & 30%): Mid-term and final exams will be conducted covering the entire course. Both exams will include multiple-choice, short-answer, and essay questions. 2. Group assignment and presentation (30%): a research project where students will design and conduct a perceptual experiment. Students will write a research proposal, collect data, analyze results, and present their findings in a written report and a presentation. 3. Presence and Participation (10%): Students should be present and actively participate in in-class discussions. | | | | | |
| **Language** | English | | | | | |