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| **Course title** | Neuropsychology | | | | | |
| **Course code** | PSY304 | | | | | |
| **Course type** | Elective | | | | | |
| **Level** | Undergraduate | | | | | |
| **Year / Semester** | Year 3 | | | | | |
| **Teacher’s name** | Eva Pettemeridou | | | | | |
| **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 relationship between brain function and behavior. Through an exploration of the neural underpinnings of cognitive, emotional, and behavioral processes, students will gain insights into the ways in which brain damage, dysfunction, and developmental differences can impact human functioning. This course aims to equip students with the knowledge and skills necessary to evaluate, interpret, and apply principles of neuropsychology in both clinical and research settings. | | | | | |
| **Learning outcomes** | The following learning outcomes are expected, where students will:   1. Explain fundamental concepts, theories, and historical developments in neuropsychology. 2. Describe major brain regions, their functions, and the neural underpinnings of cognitive and emotional processes. 3. Analyze how specific brain lesions or dysfunctions can lead to cognitive and behavioral impairments. 4. Administer and interpret neuropsychological tests to assess cognitive functions. 5. Apply principles of neural plasticity to create effective interventions for recovery. | | | | | |
| **Prerequisites** | PSY209 | | **Required** | | No | |
| **Course content** | This course aims to equip students with the knowledge and skills necessary to evaluate, interpret, and apply principles of neuropsychology in both clinical and research settings.  Week 1: Introduction to Neuropsychology  Week 2: Neuroanatomy and Brain Organization  Week 3: Neurocognitive Processes  Week 4: Assessment Methods in Neuropsychology  Week 5: Neuropsychological Disorders  Week 6: Neural Plasticity and Recovery  Week 7: Clinical Applications of Neuropsychology  Week 8: Research Methods in Neuropsychology  Week 9: Emerging Trends in Neuropsychology  Week 10: Integrating Neuropsychology with Other Disciplines  Week 11: Presentations and Case Studies  Week 12: Future Directions and Professional Development | | | | | |
| **Teaching methodology** | Lecture | | | | | |
| **Bibliography** | Kolb, B., & Whishaw, I. Q. (2021). "Fundamentals of Human Neuropsychology." Worth Publishers.  Society for Clinical Neuropsychology (Division 40 of the American Psychological Association): [www.div40.org](http://www.div40.org)  National Institute of Neurological Disorders and Stroke: [www.ninds.nih.gov](http://www.ninds.nih.gov)  BrainFacts.org: [www.brainfacts.org](http://www.brainfacts.org) | | | | | |
| **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 (20%) to write and present a research paper on a specific neuropsychological topic, requiring students to critically analyze and synthesize research articles. 3. Individual assignment (10%) to present real or hypothetical case studies where students must analyze cognitive deficits, propose potential brain regions involved, and suggest suitable assessment methods and interventions. 4. Presence and Participation (10%): Students should be present and actively participate in in-class discussions. | | | | | |
| **Language** | English | | | | | |