

Cluster	Subject Title	Instructor	Credit	Semester
K-P	Cognitive Science of Human Communication	Hideki KOZIMA & Ayahito ITO	2	Summer 2024
Subject Description				
<p>To produce future education and therapy, students must cultivate a deep understanding of the human brain and cognition from the viewpoint of cognitive sciences of human communication. In this interdisciplinary course of lectures, students learn to weave an integrated understanding of human nature from a broad range of topics such as brain science, cognitive psychology, and developmental psychology. In the final part of the course, students examine research on using robots for autism therapy that the lecturer did. Through these activities, students are expected to be able to foresee their future studies and research.</p>				
Objective				
<p>Engaging in the course of lectures, the participating students will be able to</p> <ol style="list-style-type: none"> (1) understand the fundamentals of human cognitive nature for future education and welfare from the viewpoint of cognitive science, (2) design future forms of education and welfare, and explain the expected effects of their feasibility and expected effects, and (3) have the perspective for producing innovative education and welfare in future studies and research. 				
Learning Method				
<p>The course consists of lectures to acquire fundamental knowledge of the course subject, accompanied by mutual discussion to deepen, express, and share ideas on them. The lectures and discussions use English.</p>				
Content				
<ol style="list-style-type: none"> (1) Introduction to Cognitive Science of Communication (Kozima & Ito) (2) Cognitive Neuroscience I: Anatomy and Function (Ito) (3) Cognitive Neuroscience II: Detecting Brain Areas Using Software (Ito) (4) Neuropsychology: Brain Damage and Its Effects (Ito) (5) Social Neuroscience I: Neuroimaging Techniques (Ito) (6) Social Neuroscience II: Neural Correlates of Interpersonal Perception (Ito) (7) Social Neuroscience III: Neural Correlates of Human Communication (Ito) (8) Neuroeconomics, Neuromarketing, and the Future of Brain Sciences (Ito) (9) Theories of Learning and Development: Social and Situated Learning (Kozima) (10) Cognitive Developmental Psychology I: Imitation (Kozima) (11) Cognitive Developmental Psychology II: Joint Attention (Kozima) (12) Cognitive Developmental Psychology III: Theory of Mind (Kozima) (13) Acquisition of Language and Culture I: Vocabulary Learning (Kozima) (14) Acquisition of Language and Culture I: Grammar and Culture Acquisition (Kozima) (15) Research Introduction: Using Robots for Autism Therapy (Kozima) <p>Note: The order of the lectures is subject to change.</p>				
Requirement				

Students should bring their laptop computers (preferably not smartphones). Internet connection (WiFi) will be available in the classroom.
Evaluation
Engagement in the discussions - 40% Individual final essay (500 words) - 60%
Textbook and reference (please indicate which are to be provided by instructor and which students need to find by themselves)
No textbook is used. References (academic papers, etc.) will be provided in the course.
Pre-course reading and preparation (if any)
No particular preparation is required.