

Cluster	Subject Title	Instructor	Credit	Semester
K-P	Technologies for future education	Hideki KOZIMA	2	Summer 2019
Subject Description				
<p>Future education leaders should have a proper vision and knowledge about appropriate use of technologies for future education. This course provides lectures and workshops (in groups) for acquiring such vision and knowledge on assistive technologies to ensure inclusive and equitable quality education, especially that for people with communication handicaps, such as autism, deaf, blind, etc. Students in the course will learn the facts on the communication disabilities, their cognitive, psychological backgrounds, and cases of technological solutions. The students will also engage in workshops on identifying problems on communication disabilities and planning solutions using information and communications technologies.</p>				
Objective				
<p>Engaging in the course of lectures and workshops, the participating students will be able to</p> <ol style="list-style-type: none"> (1) Understand the human cognitive characteristics and the available technologies for assisting people with communication disabilities. (2) Design, explain and present novel and original methods for assistive education and their technological feasibility and educational effects. (3) Envision future study, research and practice by combining the understanding of human nature and information and communications technologies. 				
Learning Method				
<p>The course consists of (1) lectures to acquire fundamental knowledge, (2) workshops in student groups to gain practical and collaborative experiences, and (3) presentations to have opportunities to express and share ideas. The lectures are given in English; the workshops and presentation use English.</p>				
Content				
<p>[Day 1 (afternoon)]</p> <ol style="list-style-type: none"> (1) LECTURE on cognitive and communication development. (2) LECTURE on autism and communications disorders. <p>[Day 2]</p> <ol style="list-style-type: none"> (3) LECTURE on robotic interventions for autism (1). (4) LECTURE on robotic interventions for autism (2) + DISCUSSION. (5) WORKSHOP on autism and its therapy (1). (6) WORKSHOP on autism and its therapy (2) + PRESENTATION. <p>[Day 3]</p> <ol style="list-style-type: none"> (7) LECTURE on ecological psychology. (8) LECTURE on ecological psychology of disabilities+ DISCUSSION. (9) LECTURE on assistive technology and case study. (10) WORKSHOP on assistive technology (1) (survey). (11) WORKSHOP on assistive technology (2) (survey). <p>[Day 4]</p> <ol style="list-style-type: none"> (12) WORKSHOP on assistive technology (3) (design). (13) WORKSHOP on assistive technology (4) (design). (14) PRESENTATION on assistive technology (15) LECTURE on the interdisciplinary study of communication disabilities. 				

Requirement
Students should bring their laptop computers (preferably not smartphones). Internet connection (WiFi) will be available in the classroom.
Evaluation
Engagement in the discussions - 25% Group work and presentations (Day2 and Day4) - 50% Individual final essay (500 words) - 25%
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.