## **Design of Assistive Products** 2 units (selection) Shoichiro Fujisawa · Professor / Social Environment Systems Engineering, Ecosystem Engineering, Earth and Life Environmental Engineering KATSUYA SATO · ASSOCIATE PROFESSOR / SOCIAL ENVIRONMENT SYSTEMS ENGINEERING, ECOSYSTEM ENGINEERING, EARTH AND LIFE ENVIRONMENTAL ENGINEERING Shin-ichi Ito · Assistant Professor / Social Environment Systems Engineering, Ecosystem Engineering, Earth and Life Environmental Engineering Target) It aims to learn how to realize and how to keep the quality of assistive 12. Personal environment control system : Smart House, ECS and Home bus products in the view point of international marketing and to acquire the ability system of designing of products used at office, working place and home in which the 13. Fitting of assistive products in daily living (1) : Methods of outcome measure 14. Fitting of assistive products in daily living (2) : Methods of outcome measure concept of adapting the device to the human being is installed. 15. Guideline for work place : Legislation and remodeling of work place Outline Assistive technology for daily living of persons with disabilities in the society. Human factors and R & D of assistive products and services. Adapting Evaluation Criteria Results will be evaluated through the lecture and reports the environment to the people instead of the people adapting to the environment. submitted after each lesson. Evaluation of appropriateness of assistive technology system for a person. **Reference** To be introduced in th class Style> Lecture Contents http://cms.db.tokushima-u.ac.jp/cgi-bin/toURL?EID=216807 Keyword assistive product, Japanese Industrial Standard, International Stan-Contact> dard, ISO, outcome measure ⇒ Fujisawa (ECO704, +81-88-656-7537, s-fuji@eco.tokushima-u.ac.jp) MaiL Goal) Objective of this lecture is to understand the current state of assistive (Office Hour: 水曜日 18:00~ 20:00)

**Goal**) Objective of this lecture is to understand the current state of assistive products in the world and international standard of them, and to learn designing of them. Moreover, it aimed to learn the method of outcome measure of assistive products and to be able to consider the total arrangement of products at working place and at home.

## $\textbf{Schedule}\rangle$

- 1. Introduction : assitive products as industrial products, ergonomic approach
- **2.** Situation of assistive technology in the world : North America, Europe and Japan
- **3.** Assitive products as industrial products : Japanese Standard, International Standard an Guidelines for all people including elderly and people with disabilities
- 4. Human factors (1) : Decrease of physical function according to aging
- 5. Human factors (2) : Decrease of sensory function according to aging
- 6. Japan Industrial Standards of Assistive Products : Wheelchair (1)
- 7. Japan Industrial Standards of Assistive Products : Wheelchair (1)
- 8. Japan Industrial Standards of Assistive Products : Artificial Legs
- 9. Japan Industrial Standards of Assistive Products : Artificial Arms
- 10. Japan Industrial Standards of Assistive Products : Beds
- 11. Japan Industrial Standards of Assistive Products : Hoists