

Design for Adapting the Environment Instead of the Peop

2 units (selection)

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Target) The objective of this lecture is to consider the role of assistive technology for the persons with disabilities living in the society and to learn on the development of assistive products in the view point of human factors and outcome measure in daily living with assistive products.

Outline) Assistive technology for a disabled individual living in the society. Human factors and R & D of assistive devices and services. Adapting the environment instead of the disabled people. Evaluation of appropriateness of assistive technology system for a person.

Style) Lecture

Keyword) *assistive products, outcome measure, persons with disability, research and development, ergonomics*

Goal) An expertise necessary to research and develop an actual assistive products is acquired. The method of outcome measure for assistive products will be mastered.

Schedule)

1. Guidance
2. Human factors in physical view point (1)
3. Human factors in anatomical view point (2)
4. Human factors in psychological view point (3)
5. Adapting the people to the environment
6. Adapting the environment instead of the people
7. Physical impairment and daily living support
8. Sensory impairment and daily living support
9. Intellectual impairment and daily living support
10. R&D of assistive products and ergonomic approach (1)
11. R&D of assistive products and ergonomic approach (2)
12. R&D of assistive products based on daily living (1)
13. R&D of assistive products based on daily living (2)
14. Outcome measure of assistive products (1)
15. Outcome measure of assistive products (2)

Evaluation Criteria) Results will be evaluated through the lecture and reports submitted after each lesson.

Textbook) To be introduced in the class

Contents) <http://cms.db.tokushima-u.ac.jp/cgi-bin/toURL?EID=216808>

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