COURSE DESCRIPTION CARD - SYLLABUS

Course name
Ergonomics and Interior Design for Elderly and People with Disability 1 [S2AW1>EiKWOSiN1]

Course

Field of study
Interior Design

Year/Semester
1/1

Area of study (specialization)
–

Profile of study
general academic

Level of study
second-cycle

Course offered in
Polish

Form of study
full-time

Requirements
compulsory

Number of hours

Lecture
15

Laboratory classes
0

Other
0

Tutorials
0

Projects/seminars
45

Number of credit points

4,00

Coordinators

Lecturers

Prerequisites

- Has theoretical knowledge of interior design - has skills in interior design including: functional requirements, lighting, finishing materials and their properties - is aware of the psychological issues of interior design - has a general understanding of the challenges of designing for people with disabilities and the elderly

Course objective

The primary goal of the course is to sensitize students to the need for inclusive and able to design it. An attractive and easily accessible space for the whole society is a a prerequisite for social inclusion: including the elderly and people with disabilities. The intention of of the lecturers is to reinforce the idea that solutions in the spirit of universal and inclusive design inclusive can be perfectly stylized and constitute the originality of the architectural and interior design work. interior design. Students will become familiar with the design requirements for people in particular elderly, people with motor limitations but also the blind and deaf. Students will learn to critically evaluate existing spaces through an architectural audit, then propose changes and amenities to improve their accessibility. They will also design proprietary solutions of architectural details or interior design elements with high aesthetic qualities, dedicated to the elderly or disabled.

Course-related learning outcomes

none

Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows:

Credit in the form of a lecture exam and credit for the exercise
Mid-semester review and final project review at the last class
grading scale: 2,0; 3,0; 3,5; 4,0; 4,5; 5,0

Programme content

Lectures:
Issue 1: Definitions and legal basis of universal design, barrier-free design,
inclusive design
Topic 2: Historical outline of ergonomic research
Topic 3: Designing for people with disabilities, examples of spaces in which the
user's disability inspired architectural form
Issue 4: Cultural aspect in preferences for materials and composition of architecture and
interiors for the elderly
Exercise:
1. architectural audit of a given residential space,including assessment of the degree of its inclusiveness, identification of the main problems, preparation of a report with photographic documentation
2 Project of adaptation of space in the spirit of universal design, together with the development of author's solutions of architectural details or elements of interior design

Course topics

none

Teaching methods

-theoretical teaching methods: lecture and discussion supported by references to the subject literature
-practical teaching methods: architectural audit, simulation of disabilities and execution of a design exercise.

Bibliography

Basic
K.Kowalski, Switch. Design without barriers, publisher Integration Foundation. Publication for free download at: http://www.integracja.org/wlacznik/
Regulation of the Minister ofInfrastructure on the technical conditions to be met by buildings and their location
S. Pheasant, C. M. Haslegrave, Bodyspace: Anthropometry, Ergonomics and the Design of Work, CRC Press 2005
A. R. Tilley, The Measure of Man and Woman: Human Factors in Design, Wiley 2001

Supplementary
Bonenberg A., Zablocki M. “Residential architecture for health and longevity. Universal kitchen design” and ”Residential architecture for health and longevity. Universal kitchen design” [in].
Space & FORM | Space & FORMa '31_2017 ed. DOI: 10.21005/pif.2017.31.B-02
Rychlik M., Bonenberg A., Methodology of experimental ergonomic research and virtual computer simulation techniques, in Monograph: Introduction to Rehabilitation Engineering, edited by M. Zablocki, Published by the Faculty of Working Machinery and Transport, Poznań University of Technology, Poznań 2017, pp. 157-185.ISBN 978-83-941828-1-6
Bonenberg A., Aiding Self-reliance of the Elderly and the Disabled - Modular Cupboard with Mobile Internal Units [in] Universal Access in Human-Computer Interaction. Universal Access to the Built Environment, Springer International Publishing, New York, Dordrecht London, 2015, ISSN 0302-9743, DOI 10.1007/978-3-319-20687-5, pp.403-412
Bonenberg A., Designing a functional layout of a kitchen for persons with disa

Breakdown of average student's workload

	Hours	ECTS
Total workload	0	0,00
Classes requiring direct contact with the teacher	0	0,00
Student's own work (literature studies, preparation for laboratory classes/ tutorials, preparation for tests/exam, project preparation)	0	0,00