



COURSE DESCRIPTION CARD - SYLLABUS

Course name

Universal design [S2Bud1-BDMiK>PU]

Course

Field of study

Civil Engineering

Year/Semester

1/1

Area of study (specialization)

Road, Bridge and Railway Engineering

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

0

Laboratory classes

15

Other (e.g. online)

0

Tutorials

0

Projects/seminars

0

Number of credit points

1,00

Coordinators

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Lecturers

Prerequisites

Basic information from the course: Universal Design I (1st cycle). The ability to obtain information from the indicated sources and readiness to cooperate as part of the team

Course objective

Provide students with basic knowledge of the principles of universal design, corresponding to the current social, economic and labor market needs. The aim of the course is to increase the acquired competences (knowledge and skills) by introducing new forms of education, based on a human-centered approach to designing private and public space.

Course-related learning outcomes

Knowledge

1. The student has detailed knowledge of the principles of universal design.
2. The student has a basic knowledge of the possibilities and limitations in the functioning of people with

various needs, both in biological, psychological and social aspects.

Skills

1. The student knows how to empathize with the role of a person with limitations.
2. The student knows how to use GERT-type old age simulators.
3. The student can design a space prepared for people with limitations (the elderly, people with disabilities, parents with young children).
4. The student knows how to use computer software supporting the design process.

Social competences

1. The student sees the need to systematically deepen and expand their competences.
2. The student understands the need for teamwork in solving theoretical and practical problems.

Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows:

The skills acquired during the laboratory classes are verified on the basis of a final test, a test consisting of 5 tasks with different scores depending on the degree of their difficulty taking into account the principles of universal design for the selected object. Passing threshold: 50% of points.

Programme content

Workshops with the use of GERT-type old age simulators, which allow young people to survive and understand age-related limitations by simulating changes in the human body. During classes can used wheelchair and eyes illness simulation.

Course topics

Workshops with the use of GERT-type old age simulators, which allow young people to survive and understand age-related limitations by simulating changes in the human body. During classes can used wheelchair and eyes illness simulation.

Teaching methods

Small group task, multimedia presentation, workshop with wheelchairs and eyes illness simulation

Bibliography

Basic

- Ustawa z dnia 19 lipca 2019 r. o zapewnianiu dostępności osobom ze szczególnymi potrzebami (Dz. U. 2019 poz. 1696)
- Rozporządzenie Ministra Infrastruktury z dnia 12 kwietnia 2002 r. w sprawie warunków technicznych, jakim powinny odpowiadać budynki i ich usytuowanie (Dz.U. z 7 czerwca 2019, poz. 1065)
- „Włącznik projektowanie bez barier”. Kamil Kowalski, Fundacja Integracja. Warszawa, wydanie 11.2017. Dostęp online:
 - <http://www.integracja.org/wp-content/uploads/2017/12/W%C5%82%C4%85cznik-projektowanie-bez-barier.pdf>
 - „Standardy dostępności budynków dla osób z niepełnosprawnościami” - uwzględniając koncepcję uniwersalnego projektowania – poradnik. Wydany przez Ministerstwo Infrastruktury i Budownictwa, jako kodeks dobrych praktyk. 4 / 4 Warszawa, 04.2018.

Additional

- Standardy dostępności przyjęte przez JST w Polsce (np. Gdynia, Warszawa, Łódź, Wrocław), np.: „Standardy dostępności dla miasta stołecznego Warszawy, Warszawa, 23.10.2017. Dostęp online: https://polskabezbarier.org/documents/standardy_dostepnosci_warszawa.pdf
- „Standardy dostępności dla polityki spójności 2014 – 2020”. Załącznik nr 2 Standardy dostępności dla polityki spójności 2014-2020 dotyczące takich obszarów jak: cyfryzacja, transport, architektura, edukacja, szkolenia, informacja i promocja wydany przez Ministerstwo Inwestycji i Rozwoju. Warszawa, 11.04.2018. Dostęp online: https://www.poir.gov.pl/media/56123/Zalacznik_nr_2_do_Wytycznych_w_zakresie_rownosci_szans_i_niedyskryminacji.pdf

Breakdown of average student's workload

	Hours	ECTS
Total workload	25	1,00
Classes requiring direct contact with the teacher	15	0,50
Student's own work (literature studies, preparation for laboratory classes/ tutorials, preparation for tests/exam, project preparation)	10	0,50