



Course name	Ergonomics
Entity running the course	Faculty of Interior Architecture and Design
Entity for which the course has been prepared	Department of Design
Course type	Core / obligatory
Year of study / semester, type of studies	Year I, sem. II, full-time master's degree
ECTS credits	
Academic tutor	Ass. prof. Marcin Kuliński, PhD
Aim of the course	Getting to know the tools used for ergonomic evaluation of technical objects, used at work (the tools) and beyond (everyday objects), as well as the techniques used in user centered design.
Prerequisites	Having the first semester completed.
Learning outcomes:	
- knowledge	Student understands the necessity to consider user's needs during design process, regarding tools, machines and everyday objects. Student knows the basic tools of analysis and ergonomic evaluation of workplaces and tools, their organisation and material environment, in which the work is performed. Student has sufficient knowledge about work stages necessary for user centered design.
- skills	Student can accurately select methods and tools for a specific design problem. Student can utilize user research during requirements analysis, prototyping and testing of proposed solutions. Student can use basic statistical tools (variation analysis, t-Student test, Chi-square test) to make conclusions about

	<p>qualities of the object which is being designed or ergonomically estimated.</p>
- personal and social competence	<p>Student can effectively cooperate with other group members, in a task oriented project. Student can objectively judge effects of their work, considering the goals assigned to their team.</p>
Course content	<p>Case studies: protective clothing for the ambulance crew, needs of elderly people in public and private spaces, comfortable and safe work at a computer desk, means of individual transportation in the large city environment, during the first half of 21st century, graphical user interface in applications designed for children.</p>
Course form and number of course hours	<p>15 hours seminar</p>
Assessment methods and criteria	<p>Activity during classes, quality of a presentation prepared for a group discussion.</p>
Assessment type	<p>Graded pass</p>
Literature	<p>Etienne Grandjean, Fitting the task to the Man. An ergonomic approach, Taylor & Francis 1980 Donald A. Norman, The design of everyday things, Doubleday Books 1990 Danuta Koradecka (red.), Bezpieczeństwo pracy i ergonomia, CIOP 1997 Jan Młodkowski, Aktywność wizualna człowieka, Wydawnictwo Naukowe PWN 1998 Adam Gedliczka, Atlas miar człowieka. Dane do projektowania i oceny ergonomicznej, CIOP 2001 Edwin Tytyk, Projektowanie ergonomiczne, Wydawnictwo Naukowe PWN 2001 Robert Proctor, Trisha Van Zandt, Human Factors in Simple and Complex Systems, Allyn and Bacon 1994 Waldemar Karwowski (red.), International Encyclopedia of Ergonomics and Human Factors, Taylor & Francis 2001 Materiały dydaktyczne, dostępne w serwisie Laboratorium Ergonomii Politechniki Wrocławskiej http://ergonomia.ioz.pwr.edu.pl/</p>
Teaching aids	
Language of instruction	<p>Polish</p>