



Course name	Kinetic Design
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 / optional
Year of study / semester, type of studies	Year III, sem. V, full-time bachelor's degree
ECTS credits	10 pts ECTS
Academic tutor	Ac. Prof. Piotr Jędrzejewski, ass. tutor Piotr Stocki, MFA
Aim of the course	Teaching the student basic design skills: analysis and synthesis of technical objects, learning to communicate using hand drawing, shaping sensitivity to environment and learning to creatively search for inspiration. Learning the habit of conscious verification and review of one's own concepts at every stage of design process.
Prerequisites	Precise interest in questions of design in the areas where construction and motion are closely related with outside form, basic ability to present one's concepts in form of hand drawings and one's favourite 3D design program (3D Max, Rhinoceros, Fusion 360) and determination in constant improvement of one's skills.
Learning outcomes:	
- knowledge	Student gains knowledge in the area of working methods with concept design projects, where motion is an important element of the designed product. Learns the ways of recording and visualizing the objects. Learns the questions connected with technologies of prototyping and production.

<p>- skills</p>	<p>Student learns the basic skills in the area of analyzing form and function of a technical object using hand drawing and 3D software, generating new design solutions, recording concepts and documenting projects. Learning the habit of regular work, understanding of arguments and creative responding to new information.</p>
<p>- personal and social competence</p>	<p>Student can work in team. Has the ability to observe changes which occur in their environment.</p>
<p>Course content</p>	<p>During classes students take up the subjects connected with designing objects which are supposed to move not only in relation to the inside, but also to the outside frame of reference. Tasks are usually executed in cooperation with outside advisors who work professionally in the industry, or teach at technical schools.</p>
<p>Course form and number of course hours</p>	<p>Conversations and individual consultations, lectures, meetings, design workshops.</p>
<p>Assessment methods and criteria</p>	<p>50% executing assignments / activity during classes / working reviews 50% open review</p>
<p>Assessment type</p>	<p>Graded pass</p>
<p>Literature</p>	<p>Bhaskaran Lakshmi, "Design XX wieku. Główne nurty i style we współczesnym designie", ABE Dom Wydawniczy, Warszawa 2006. Archer Bruce L., "Systematyczna metoda projektowania przemysłowego", IWP Biblioteka Wzornictwa 7'87, Warszawa 1987 Coveney Peter, Roger Highfield „Granice złożoności”, Prószyński I S-ka Warszawa 1997 Dyson George, "Darwin wśród maszyn", Prószyński I S-ka 2005 Gelb Michael J. "Myśleć jak Leonardo Da Vinci", Dom Wydawniczy Redis, Poznań 2004 Gelernter David, "Mechaniczne piękno", Wydawnictwo CIS, Warszawa 1999 Ginalski Jerzy, M. Liskiewicz, J. Seweryn, "Rozwój nowego produktu", Akademia Sztuk Pięknych w Krakowie, Wydział Form Przemysłowych, Gropius Walter, „Pełnia Architektury”, Wyd. Karakter, Kraków 2014 Hall Edward T., "Ukryty wymiar", Muza SA, Warszawa 2003 Kotler Philip „Marketing”, Dom Wydawniczy Rebis 2012 Rychter Witold - "Dzieje samochodu", Wyd. Komunikacji i Łączności, Warszawa 1987 Sparke Penny, „Design. Historia wzornictwa”, Wydawnictwo Arkady, Warszawa 2012 Sudjic Deyan, „B jak Bauhaus. Alfabet współczesności”, Wydawnictwo Karakter 2014 Sobel Dava „W poszukiwaniu długości geograficznej”, Zysk i S-ka, 1998 Tjalve Eskild, "Projektowanie form wyrobów przemysłowych", Arkady, Warszawa 1984</p>

„WIDZIEĆ/WIEDZIEĆ. Wybór najważniejszych tekstów o dizajnie”. red. Przemek Dębowski, Jacek Mrowczyk, Wydawnictwo Karakter, Kraków 2011

Teaching aids

Language of instruction

Polish; communication in English possible