COURSE SPECIFICATION

Course code	full-time programme:	**M#2-S2-ME-305**
	part-time programme:	
Course title in Polish	**Historia Designu**	
Course title in English	**History of Design**	
Valid from (academic year)	**2024/2025**	

GENERAL INFORMATION

Programme of study	**MECHANICAL ENGINEERING**
Level of qualification	**second-cycle**
Type of education	**academic**
Mode of study	**full-time programme**
Specialism	
Department responsible	**Department of Metrology and Modern Manufacturing**
Course leader	**dr hab. inż. Marcin Graba, prof. PŚk**
Approved by	**dr hab. Jakub Takosoglu, prof. PŚk, Dean of the Faculty of Mechatronics and Mechanical Engineering**

COURSE OVERVIEW

Course type		**basic**
Course status		**compulsory**
Language of instruction		**English**
Semester of delivery	full-time programme	**Semester III**
	part-time programme	**Semester III**
Pre-requisites		
Examination required (YES/NO)		**NO**
ECTS value		**1**

Mode of instruction		**lecture**	**class**	**laboratory**	**project**	**seminar**
No. of hours per semester	full-time programme	**15**				
	part-time programme					

LEARNING OUTCOMES

Category of outcome	Outcome code	Course learning outcomes	Corresponding programme outcome code
Knowledge	W01	Has significant knowledge of the history of various technical solutions applied in the broadly understood field of design—engineering design, particularly in the areas of mechanics and industrial design.	MiBM2_W04
	W02	Possesses historical knowledge of the stages of machine construction, design, machine components, prototyping, broadly understood design, evaluation of operational properties, and wear. Is knowledgeable about historical changes in the life cycle of devices, objects, and technical systems. Understands and recognizes the concepts of product synthesis schemes and product life cycles.	MiBM2_W07
Skills	U01	Is capable of obtaining information from literature on the history of mechanics and machine construction, design history, the history of applied structural solutions, and the history of prototyping.	MiBM2_U03
Competence	K01	Is aware of the necessity to independently supplement and expand knowledge in the history of design and industrial design. Can critically evaluate their knowledge. Possesses the ability to acquire new historical information from both literature and experts in the field of design and industrial design, including mechanics and machine construction.	MiBM2_K01
	K02	Is aware of the importance of non-technical aspects and the impacts of engineering activities over the years. Recognizes historical achievements in industrial design and their influence on improving human well-being and safety.	MiBM2_K02

COURSE CONTENT

Mode of instruction	Topics covered

lecture	Introduction to the History of Design (1 hour): Definition of industrial design; The role of design in society and the economy; The relationship of design with technology, art, and culture. Pre-Industrial Design and the Beginnings of the Industrial Revolution (2 hours): Traditional craftsmanship and the impact of artisanal techniques on utilitarian objects; The Industrial Revolution (18th–19th century): mass production, new materials (e.g., cast iron, steel), and the beginnings of standardization; William Morris and the Arts & Crafts movement: a response to industrialization. Art Nouveau and Early Modernism (2 hours): Characteristics of Art Nouveau: organic style, nature as inspiration; Pioneers of modernism: Adolf Loos ("Ornament and Crime"), Peter Behrens, and the beginnings of corporate design; Bauhaus (1919–1933): principles of functional design, integration of art and technology. Interwar Design and Art Deco (2 hours): Art Deco (1910–1940): luxury and elegance in design, the influence of new materials (chrome, Bakelite); De Stijl movement and the influence of minimalism (Theo van Doesburg, Gerrit Rietveld); The development of industrial design in the USA: the beginnings of streamlining (Raymond Loewy). Post-War Design (1945–1960) (3 hours): Reconstruction and post-war optimism: the need for functional, mass-produced objects; Scandinavian design: Hans Wegner, Alvar Aalto, principles of simplicity and ergonomics; Italy and post-war design (Olivetti, Fiat): from avant-garde to functionalism; The beginnings of electronic design (e.g., radios and household appliances). Design as Cultural Identity (1960–1980) (2 hours): The consumer revolution: colorful and creative designs of the 1960s (e.g., Verner Panton); Postmodernism in design (Memphis Group, Ettore Sottsass); The relationship of design with counterculture and pop culture (e.g., psychedelic design). Design in the Digital Era and Globalization (1980–2000) (2 hours): The impact of computers on the design process (CAD); Design icons of the 1980s and 1990s (e.g., Apple – Steve Jobs, Jony Ive); Globalization and hybridization of design – a dialogue between cultures. Cntemporary Trends in Design (2000–present) (1 hour): Sustainable design: ecological materials and circular economy; Minimalism and designing for small spaces (e.g., Tiny Living); Technology as a driving force: 3D printing, the Internet of Things (IoT); Contemporary challenges: ethics in design, inclusive design.

ASSESSMENT METHODS

Outcome code	Methods of assessment					
	Oral examination	Written examination	Test	Project	Report	Other
W01			X			X
W02			X			X
U01			X			X
K01						X
K02						X

ASSESSMENT TYPE AND CRITERIA

Mode of instruction	Assessment type	Assessment criteria
lecture	non-examination assessment	Passing the final test with at least 50%. Preparing a presentation on a topic related to the lecture (flipped classroom) and achieving a score of at least 50%. The final grade is a weighted average of the final test score (weight 0.65) and the presentation score (flipped classroom, weight 0.35).

OVERALL STUDENT WORKLOAD

ECTS weighting				
No.	Activity type	Student workload		Unit
		full-time programme	part-time programme	

1.	Scheduled contact hours	L	C	Lb	P	S	L	C	Lb	P	S	h
		15										
2.	Other contact hours (office hours, examination)	**2**										h
3.	**Total number of contact hours**	**17**										h
4.	**Number of ECTS credits for contact hours**	**0,7**										ECTS
5.	**Number of independent study hours**	**8**										h
6.	**Number of ECTS credits for independent study hours**	**0,3**										ECTS
7.	**Number of practical hours**	**0**										h
8.	**Number of ECTS credits for practical hours**	**0,0**										ECTS
9.	**Total study time**	**25**										h
10.	**ECTS credits for the course** *1 ECTS credit = 25-30 hours of study time*	**1**										ECTS

READING LIST

1. John Heskett – Design: A Very Short Introduction,
2. Charlotte Fiell, Peter Fiell – Industrial Design A–Z
3. Adrian Forty – Objects of Desire: Design and Society Since 1750
4. Jana Revedin – Bauhaus Spirit: 1919–1933
5. Victor Margolin – World History of Design (Vol. 1 & 2)
6. Penny Sparke – An Introduction to Design and Culture: 1900 to the Present
7. Christopher Frayling – Designing the Future: Modern Design and Technology
8. Thomas Hauffe – Design: A Concise History
9. Jonathan Woodham – A Dictionary of Modern Design
10. Aaron Betsky – Icons of Design: The 20th Century
11. "The Role of Design in the Industrial Revolution" – an article available in Design Issues (MIT Press).
12. Victoria and Albert Museum Online Collection – A database of projects, products, and movements related to the history of design: V&A Design Collection.
13. MoMA Design and Architecture – The collection of the Museum of Modern Art in New York: MoMA Design.
14. IDEO's Design History Timeline – An interactive overview of key moments in design history.
15. Cezary Wąs – Historia wzornictwa przemysłowego (in Polish)
16. Krzysztof Lenartowicz – Wzornictwo przemysłowe: między sztuką a techniką (in Polish)
17. Jan Gola – Historia i estetyka wzornictwa przemysłowego (in Polish)
18. Bolesław Stelmach (red.) – Design i konteksty kulturowe (in Polish)