Course code:

15-WZR-EMS-DS-SP5

Plan position:

ition:

A. INFORMATION ABOUT THE COURSE

B. Basic information

Name of course	SPECIALIZED DESIGN (DESIGNING TECHNICAL EQUIPMENT)
Field of studies	INDUSTRIAL DESIGN
Level of studies	FIRST CYCLE
Profile of studies	PRACTICAL
Form of studies	FULL-TIME STUDIES
Specialty	
Unit responsible for the field of studies	FACULTY OF DESIGN
Name and academic degree of teacher(s)	Dr. Desy Teja Gumilar
Introductory courses	-
Introductory requirements	Basic knowledge related to design in the area of Industrial Design and directions of technological development.

C. Semester/week schedule of classes

Semester	Lectures (W)	Auditorium classes	Laboratory classes	Project classes	Seminar	Field classes	Number of ECTS points
		(Ć)	(L)	(P)	(S)	(T)	•
Winter				90			4

2. LEARNING OUTCOME

		The reference	The reference		
		to the	to the		
No	Learning outcomes description	learning	learning		
140.	Learning outcomes description	outcomes of	outcomes for		
		specific field	the area		
		of study			
	KNOWLEDGE				
W1	Student has advanced and in-depth knowledge related to				
	design in the area of Industrial Design and related	K_W01	P6S_WG		
	disciplines: Interior, Visual Communication, Exhibition				
	and Urban Design.				
W2	Student knows and studies publications, understands the				
	development and history of design achievements in the	K_W03	P6S_WG		
	field of Industrial Design and has knowledge of				
	contemporary trends in the development of art, Industrial				
	Design and Architecture.				
W3	Student demonstrates an understanding of the impact of				
	the development of civilization and cultural processes on	K_W09	P6S_WG		
	the present day.				
SKILLS					

U1	Student is capable of conducting an analysis of human needs and behavior as an individual, functioning in specific conditions and a specific environment.	K_U01	P6S_UW	
U2	Student is able to define design problems in the field of Industrial Design resulting from the observation of the needs of both the individual and society, and to realize his own design concepts in the field of Industrial Design concerning the broadly understood human environment.	K_U02	P6S_WG P6S_UW	
U3	Student has the ability to make independent decisions about the method of project implementation and is able to choose the right technique for the communication and implementation of the project task.	K_U05	P6S_UW	
U4	Student is able to respond by design to the user's needs, considerations of function, material and technology, and to plan and carry out an evaluation of the basic properties of engineering materials.	K_U09	P6S_UW	
SOCIAL COMPETENCES				
К1	Student understands the need to communicate with the mass media in term of information and opinions on the achievements in technology and design. Participates in activities to preserve the cultural heritage of the region, country, Europe.	K_K05	P7S_KO P7S_KR	

3. TEACHING METHODS

A. Traditional methods used ***

project exercises, demonstration, discussion, lecture

B. Distance learning methods used ***

Synchronous method (classes conducted in a way that ensures direct interaction between the student and the teacher in real time, enabling immediate flow of information, the method can be used only if it is provided for in the study plan for a given cycle of education):

e.g. remote lecture in the form of videoconference, remote discussion, etc.

Asynchronous method used as an auxiliary (a method that does not ensure direct interaction between the student and the teacher in real time, used only as an auxiliary / complementary method):

e.g. online educational videos, online multimedia presentations, etc.

4. METHODS OF EXAMINATION

Design preparation

5. SCOPE

Project	The study period is a time to learn about how to implement project tasks in
	professional life. Every task. That's why the topics of semestral project are
	designed to inspire, not to limit. Everyone is different and everyone is subject to
	different emotions. Therefore, each student should be approached individually.
	Students is not forced to do anything against his/her will. We bring out their
	passion. It is the student who, as a result of the process of analysis and his/her
	own exploration, materializes the thought into the form of an industrial design.
	The role of the instructor comes down to skilfully guiding this process. A good
	designer should have the ability not only to respond to a given design topic, but

also to propose directions himself. A keen observation of the market, visits to
trade fairs and individual abilities give the opportunity to create a good design
that sets trends and resists passing fashions. The student, after learning about the
topic, is required to draw up a schedule of design work and strictly follow it. In
this way, the instructor and the student have full control over the progress of the
design work.
Requirements to pass the semester project:
- 70x100 cm design poster,
- imitation or functional model of the project in 1:1 or 1:3 scale
(type of model depending on the project),
- designer's sketchbook in A4 format,
- archived digital documentation of the project in the form of slides
(extension .jpg, minimum 15x15 cm, with a resolution of 300 dpi.).
It is also important for the student to be able to design not only an industrial
design, but also his own career. The world around us is constantly changing.
Knowledge acquired now may be useless in an instance. The goal of the class is
to teach the student to think like a designer, and we place special emphasis on the
ability to seek inspiration. This is the starting point for further stages of design.
The student should also be familiar with the techniques, tools and materials
necessary to undertake the design task and have the ability to properly read the
the issues contained in the Design Brief. During revisions, the way of
communication, the form of presenting the design vision is important. Student
will obtain knowledge of known and applicable procedures in manufacturing and
commercial companies
connectur companies.

6. METHODS OF VERIFICATION OF LEARNING OUTCOMES

LEADNING	Form of assessment					
OUTCOME	Oral examination	Written exam	Colloquium	Project	Credit	
W1 - W3					Х	
U1 - U4					Х	
K1					Х	

7. LITERATURE

Basic literature	Guidot R., 1998. DESIGN 1940-1990 wzornictwo i projektowanie, Arkady, W-wa
	Bhaskaran L., 2006. Design XX wieku. Główne nurty i style we współczesnym
	designie, ABE Dom Wydawniczy, Warszawa
	McDermott C.,1999. Design. Sztuka projektowania XX wieku, Wydawnictwo
	Prowincja, Lesko
	Buchannan C., Wzornictwo dla zmieniającego się świata, Wiadomości IWP nr 9-
	10/74
	Smardzewski J., 2009. Projektowanie mebli, Poznań
	Jerzy Smardzewski J.,2007. Komputerowo zintegrowane wytwarzanie mebli, Poznań
	Szczuka J., J. Żurowski J., 1999. Materiałoznawstwo przemysłu drzewnego,
	Warszawa
	Dzięgielewski S., Smardzewski J., 1995, Meblarstwo projekt i konstrukcja, Poznań

	Cameron B. i B., 2006. <i>Meble gięte i inne przedmioty z wikliny</i> , Warszawa Kaesz G., 1990. <i>Meble stylowe</i> , Wrocław Asensio F., 2004. Meble stylowe t.I-II, Warszawa Dzięgielewski S., 1996. <i>Meble tapicerowane produkcja przemysłowa</i> , Warszawa
Supplementary literature	 Cel I. Doskonałość w produkcji, Eliyahu M. Goldratt, Jeff Cox, Mintbooks 2007 Cel II. To nie przypadek, Eliyahu M. Goldratt, Jeff Cox, Mintbooks 2007 Nienasycone żywice poliestrowe, Zofia Kłosowska-Wołkowicz, Piotr Penczek, Wacław Królikowski, Piotr Czub, Jan Pielichowski, Ryszadr Ostrysz, WNT 2010 Na grzbiecie fali. O projektowaniu w złożonym świecie, John Thackara, SWPS Academica 2010 Starck, Ed Mau Cooper, Taschen 2012

8. TOTAL STUDENT WORKLOAD REQUIRED TO ACHIEVE EXPECTED LEARNING OUTCOMES EXPRESSED IN TIME AND ECTS CREDITS

S	Student workload– number of hours	
Classes conducted under a	Participation in classes indicated in point 1B	90
direct supervision of an academic teacher or other persons responsible for classes	Supervision hours	10
	Preparation for classes	5
Student's own work	Reading assignments	5
	Other (preparation for exams, tests, carrying out a project etc)	30
Total student workload	140	
	4	