WSB University										
Field of study:			nent and Engi	neering						
Course: Design		-								
Educational pro										
Education leve		cle studies/		1						
Number of hours per			1		2		3			
semester		l	II	III	IV	V	VI	VII		
Full-time studies							14 c			
(L/C/lab/pr/e)*										
Part-time studies							12 c			
(L/C/lab/pr/e)*										
LECTURER										
FORM		Classes								
COURSE OBJECTIVES		used in profe vocabulary u Students wil applications innovative se solutions.Stu users/clients	essional practic used in Design I learn where th it works best. S olutions and lea udents will learr s, how to arouse	e, including eng Thinking metho is method com Students will als arn how to verify about the Des e their creativity	ents with the De gineering activity dology es from, what sta o learn how to s v the real market ign Thinking me to generate inno organize the gro	and to familia ages it consist timulate their usability of th thod, how to c ovative solution	arize students ts of and in wh creativity to ge he generated diagnose the re	with English ich enerate eal needs of		
Field-related	R	eference to I	PQF Des	scription of lea	rning outcome	s Method	of verification	of learning		
learning					-	outcomes				
outcome				Knowledge The student:						
ZIP_W02	P6S_WG		Has	Has the advanced knowledge and Preliminary project (prototype),						
_				understanding of the assumptions of			observation during classes,			
				Design thinking methodology; knows			participation in the discussion.			
			the b	basic DT conce	ots such as					
			pers	ony, insight, en	pathy; knows ar	nd				
			unde	erstands the effe	ectiveness of the	;				
				•	ethod in decisior	1-				
				ing in conditions						
			unce	ertainty in the or	-					
		Skills The student:								
ZIP_U06	P6S_UW, Eng.		Can	Can integrate knowledge and use the			Observation, prototype			
			desi	gn thinking met	method and tools in development, discussion.			n.		
			crea	ting innovative	services, produc	ts				
			and	solutions						
ZIP_U08	P6S_UW, Eng.			Can analyze critically and assess the Observation, prototype						
				tioning of existir	-	developm	nent, discussio	n.		
				tions in the orga	inization of					
				luction,						
				e same time pro						
			-		d on the design					
			think	king method	• • •					
					Social c	ompetences				

			The student:				
ZIP_K01	P6S_KK		understands	the need to continuously	Observation, project development,		
			improve kno	wledge of design thinking	discussion.		
			and to deve	lop creative thinking.			
ZIP_K03	P6S_KO		is prepared	to participate in the	Observation, project development,		
			developmer	it of social projects using	discussion.		
				hinking method.			
Student's ow	n workload (1h	teaching hour=4	-				
Full-time				Part-time			
	lectures =			participation in lectures =			
participation in lectures =				participation in classes = 12h			
participation in classes = 14h				preparation for classes = 14h familiarizing with the			
preparation for classes = 12h familiarizing with the recommended reading							
	r lectures/tutoria	I —		recommended reading			
				preparation for lectures/tutorials =			
• •	r an end-of-term	test/examination	= on group	preparation for an end-of-term test//examination = 8h group			
consultation				consultation			
project tasks =	=			e-learning =			
e-learning =				credit/examination = 2h			
credit/examina				other = 14h prototype development			
•	rototype develop	oment		Total:50h			
Total:50h				ECTS points: 2			
ECTS points:		_		Including pratical class	es: 2h		
Including pra	tical classes: 2	h					
PREREQUISI	TES Cr	eative thinking ski	lls, open attit	ude			
COURSE CONTENT Contact hours: :MS Teams platform							
	Introduction to Design Thinking						
Changing market requirements							
	Creating a Design Thinking Team						
Design Thinking process							
	 Empathy – hidden and intuitive customer/user motivation 						
Defining the right problem							
 Defining the right problem How to unlock the potential of innovation? Generation of ideas Prototyping – rapid failures Testing hypotheses Implementation of Design Thinking in the organization 							
				IRAS			
				tion			
				sign Thinking Toolbox, Wile			
		WITCK IVI., LINK P.,	Lellel L., Des	SIGHT THINKING TOOLDOX, WIE	y a 30115 2020.		
LITERATURE							
			hu Declara U	au Daaian Thialdan Tara (
OPTIONAL		T. Brown - Change by Design: How Design Thinking Transforms Organizations and Inspires					
LITERATURE Innovation Hardcover, 2009r							
Owen C.: Design Thinking: Notes on its Nature and Use, Design Resear					sign Research Quarterly 2007, Vol.		
		2, nr 1.					
		Michalska-Dominiak B., Grocholiński P., Poradnik design thinking, czyli jak wykorzysta					
		ojektowe w biznes					
TEACHING M		ntact hours (team	,	•			
	Mini lecture, discussion, exercises in subgroups, working according to the design thinking.						
	me	ethodology					
			a				
TEACHING A	ius 0v	erhead projector,	flipchart, mu	ltimedia presentation			

PROJECT	
(if implemented in the	
framework of a classes	
module)	
FORM AND	Development of a prototype compatible with the Design Thinking methodology, individually or in
CONDITIONS OF	small teams
ASSESSMENT	Form of the project: descriptive-model
	Credit with a grade: Evaluation of the prepared prototype of an innovative solution. Evaluation of
	the presentation of the generated and developed innovative product or service solution
	By project groups. Evaluation of active participation in classes.

* L-lecture, C- classes lab- laboratory, pr- project, e- e-learning