

DESCRIPTION OF STUDY COURSE

Course unit title	Digital Transformation I - Applied Digital Skills and Technologies		
	(UX/UI, AR, VR, Gamification)		
Programme	Business Process Management		
Year of study	1		
Academic year	2023/2024		
Level of course unit (e.g.	First, Bachelor's study		
first, second or third			
cycle)			
Course unit code	BP010		
Name of lecturer(s)	Roberts Ceruss, Gunita Ķiesnere		
Credit points	2,6 CP		
Number of ECTS	4 ECTS		
allocated	Latvian credit points are multiplied by 1,5 to get ECTS		
Language of instruction	English		
Type of course unit	Compulsory		
(compulsory, optional)			
Semester when the course	1, 2		
unit is delivered			
Mode of delivery	Full-time education		
Aim of Course	1) Give students an understanding of IT systems and their impact not only on		
	documenting business management processes but also on reporting. Improve		
	analytical skills by selecting and using the most efficient application to		
	visualize results and achieve organizational goals.		
	2) Introduce the user experience (UX) design process and methods as a holistic		
	approach used for planning and designing successful digital applications. Study		
	the elements of user interface (UI) and its role in successful user experience		
	design.		
	3) Give a practical intro into virtual reality (VR), augmented reality (AR) and		
	the models used to design and evaluate XR solutions.		
	4) Provide students with theoretical and practical knowledge about meta verse		
	and gamification.		
Preliminary knowledge	Business English; Communication Skills		
(prerequisites and co-			
requisites)	1. Online collaboration applications/software		
Course contents	1. Online collaboration applications/software.		
	2. UX strategy and human-centered design process and elements.		
	3. User research methods and basics of interaction design.		
	4. Information architecture, user journey and experience mapping.5. User testing and validation. Quantitative analytics tools.		
	6. Theories of design of user interfaces.		
	7. UI styles and elements.		
	•		
	8. UI patterns and their applicability.		
	9. XR development, initial vision and application.		
	10. Testing XR applications from various industry cases and complexity.		



	11. Defining XR solution. Various methods and sets of steps to take in order to find the best solution if any. Why/How/What method. Budgeting. Metrics of process and results evaluation, how to know if project/pivot was successful (value added). 12. Practical group work. Solution proposals for set of use cases given from various industries, user journey given. Design thinking exercise in 3 rounds,				
	moderated by tutor.				
	13. Gamification origins and theories				
The study course	Topic	Type of assessment			
calendar	1. UX strategy and human-centered				
	design process. The elements of user				
	experience.				
	2. User research methods and product				
	concept / personas				
	3. Information architecture, user	Individual work and the presentation			
	journey mapping, experience mapping (story boarding)				
	4. Basics of interaction design – low	Literature discussion			
	fidelity and high fidelity prototypes of	Literature discussion			
	product idea and user flow – iteration				
	and experimentation				
	5. User testing and validating the	Literature discussion			
	product idea in early stage.				
	Quantitative analytics tools.				
	6. Theories of design of user				
	interfaces				
	7. UI styles and elements				
	8. UI patterns and their applicability	Literature discussion			
	9. XR development, initial vision and	and			
	application.				
	10. Testing XR applications from	Literature discussion			
	various industry cases and				
	complexity.				
	11. Defining XR solution. Various methods and sets of steps to take in				
	order to find the best solution if any.				
	Why/How/What method. Budgeting.	Individual work and the presentation			
	Metrics of process and results	F T T T T T T T T T T T T T T T T T T T			
	evaluation, how to know if				
	project/pivot was successful (value				
	added).				
	12. Practical group work. Solution				
	proposals for set of use cases given				
	from various industries, user journey				
	given. Design thinking exercise in 3	Individual work and the presentation			
	rounds, moderated by tutor.				



	12.0 :6 :	1				
	13. Gamification origins an	d				
	topicality	-				
	14. Gamification model and theories		e discussion			
	15. Gamification examples in public	c, Individua	ual work and the presentation			
	private sectors and everyday life.					
	· ·	16. Case study in teams Group we		ork and the presentation		
Planned learning	Assessment of learning outco	omes	Distribution (%)			
activities and teaching	Individual work; Individual work and	1 the	309	<u></u>		
methods	presentation					
	Group work and the presentation	30%				
	Test		10%			
	Literature discussion		20%			
	Active participation in the class					
	Active participation in the class		10%			
		Total (%):	100%			
	Teaching methods		Student work load			
	Classes in auditorium			(h) 22		
	Lecturer-lead group assignments	10				
	Questionnaire	5				
	Lecturer-lead class discussions	6				
	Student-lead class discussions	12				
	Storytelling	3				
	Terminology tests and crossword put	2				
	Work in the library	18				
	•	42				
	Case study					
T	1 Ct-1-1	Total (h): 135				
Learning outcomes of the course unit	1. Students are able to select appropriate digital and technological solutions and					
course unit	select, analyse and interpret the information received.					
	2. Students are familiar with the concept and process of UX, gained practical insight into the application and benefits of techniques, and are able to apply					
	insight into the application and benefits of techniques, and are able to apply					
	UX/UI techniques to their further study and work projects. 3. Students are able to greate a high quality task for the use of XP technologies.					
	3. Students are able to create a high-quality task for the use of XR technologies, define target, usage, business benefits, user, and choose the appropriate					
	technology spectrum.					
	4. Students can use the knowledge of power simple and medium-complicated					
A 4 4	dealing with business, state and personal problems.					
Assessment methods and	Learning outcomes	2	2	4		
criteria	A second mathed	2	3	4		
	Assessment methods					
	Individual work and the	•	•	•		
	presentation					
	Group work and the	•	•	•		
	presentation			_		
	Test					



	Literature discussion		•	•	•			
	Active participation in the							
	class	•	•	•	•			
Recommended or	Mandatory literature							
required reading	BA School of Business and Finance methodological guidelines for							
	elaboration and defense of independent study papers. Available: BA School							
	of Business and Finance internal information system (BAIS)							
	Jelen B., Alexander M. "Microsoft Excel 2019, Pivot Table Data Crunching",							
	Pearson Education, 2019							
	Alexander M., Kusleika D., Walkenbach J., "Excel 2019 Bible", 2018							
	Lambert J., "Microsoft Word 2019 Step by Step", Pearson Education, 2019							
	Supplementary literature							
	XR for business, podcast							
	Extended Reality summary, report, Accenture, online resource							
	XR for EVERY budget, Alan Smithson, online source (Medium.com)							
	"Seeing is believing. How VR and AR will transform business and the							
	economy", PwC interactive XR industry tool, online resource							
	https://www.pwc.com/seeingisbelieving							
	How games make kids smarter, Gabe Zichermann, TED talk 6 Steps to Effective Gamification, Kevin Werbach, podcast (https://engagingleader.com/6-steps-to-effective-gamification-transcript/) The Octalysis Framework, Yu-kai Chou, online resource							
	(https://yukaichou.com/gamification-examples/octalysis-complete-gamification-framework/) Gaming Can Make a Better World, Jane McGonigal, TED talk							
	Supplementary: Gamification by Design, Gabe Zichermann, e-book							