## Research – Development – Innovation Syllabus

1. General Informations	Course title: <b>Designing effective positive technology tools: history,</b> <b>applications and future trends. Interdisciplinary course</b>						
	Course coordinator(s) / lecturer(s): Ágnes Karolina Bakk, Borbála Tölgyesi, Sam Chovanec Contact details: bakk&mome.hu						
	Level and Code: M-KF-301-IK- 242501-02	Position in the Curriculum: BA 2, 3 MA 1,2	Recommended semester:	Credits: 5	Teaching hours: Student workload: 144		
	Related codes: M-KF-E-101-IK- 242501-02	Type: lecture/ seminar/practice / <u>combined</u>	Is it open to sign- up as an elective?	Specific an electi	pre-conditions to sign-up as ive:		
	Interlinkages / prerequisites, parallel units: Interaction design						
2. Targeting	Aims and principles of the course: (in accordance with the subject description) This course focuses on the principles of positive technology, which utilizes technology to enhance mental health and overall well-being (Gaggioli et al., 2017). It offers an interdisciplinary exploration of the historical roots, current trends, and future possibilities within this field. Starting from foundational works like ELIZA (Weizenbaum, 1966) to contemporary innovations such as meditation apps like Tripp VR, students will trace the evolution of technology-assisted interventions for mental health. Throughout the course we aim to encourage students to cultivate critical thinking skills, particularly in discerning the key attributes of positive technologies. Through theoretical discussions, case studies, and hands-on prototyping exercises, they will delve into the mechanics and functions of these applications, understanding how they can support mental health and well-being. Our goal is that at the end of the course, students will develop a deeper understanding of ethical considerations and potential risks associated with technology use in this context. They will apply this knowledge by creating paper or Figma prototypes of their proposed well- being-oriented positive technology applications.						
	<ul> <li>Intended learning outcomes / professional and transitive competencies:</li> <li>(in accordance with the subject description)</li> <li>Knowledge: <ul> <li>understanding of the basic concepts and requirements of positive psychology</li> <li>overview of existing trends in mental health-related apps</li> <li>overview of general research methods with basic concepts that necessary for background research</li> </ul> </li> </ul>						
	<ul> <li>Skills: - paper prototyping</li> <li>introductory of psychology measurements and experimentation</li> <li>possible tangible media coding (intro level)</li> </ul>						
	Attitudes/attribu - proactive	ites:					

	- ethical				
	- inclusive				
	Autonomy and Responsibility:				
	- responsibility in ethical decision making				
	- autonomous in decision making				
	<ul> <li>responsability for making decision in inclusive design</li> </ul>				
	Course content (topics and themes):				
	1. History				
	<ol> <li>Current applications aiming to offer better mental health states</li> </ol>				
	3. UX test: general testing				
	5. Guest talks: Erdős Sándor (ONCO VR) + András Szabó (Code and Soda) TBC				
	6. Guest3: Patrícia Lajkó (Rókus Hospital - Semmelweiss University) TBC				
	7. Guest4: Máté Szondy (Pázmány University and Mazsihisz Hospital) TBC				
	8. Tech introductory for prototyping I. (possible to choose from VR or Microcontrollers				
	or Unreal)				
	9. Tech+prototype development II.				
	10. Tech+ prototype development III.				
	11. Ideas +final pitch development				
3. ltinerary	12. Final presentation				
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Itir	RDI methods and tools used in the course:				
ы.	<ul> <li>Exploring mental health supporting prototype processes</li> </ul>				
	- Interdisciplinary research method				
	- User-Centered design of AI-Powered mental health application				
	Specificity of the learning process:				
	Teaching method: presentations, guest speakers from the industry and health care,				
	consultation, paper prototype development, final presentation				
	Schedule: every Friday: 10.00-13.00				
	Tasks and assignments (with student notional workload): background research, presentation				
	preparation, prototype development				
	Learning environment: classroom				
	Assessment:				
4. Evaluation	- Class activity				
	- Prototype development				
	-Presentation				
	Assignments: 1. Creating a Figma or paper prototype of a mental-health-supporting				
	application and presenting it.				
alı	2. Creating a concept, how would they test or validate its beneficial effects on the users				
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БV	(presented together with the prototype).				
4. Ev	3. Writing a short (one-page) theoretical background (well-being focused) of the app.				
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Calo	culation of grade: Prototype development 50%, Presentation 30%, Writing assignmer
10%	%, Class activity 10%
(we	eights of the achievements, assignments; ranges of rates or points)
	or learning recognition (based on application):
- Fa	amiliarity with basic HCI or basic animation, media design tools
	<ul> <li>Basic understanding of technology development</li> </ul>
	- Basic understanding of research
Rec	commended readings:
Jaci	inthe Flore: The Artefacts of Digital Mental Health. Palgrave Macmillan, 2023.
Fur	ther readings, documents, sources:
Gag	ggioli, Andrea, Giuseppe Riva, Dorian Peters, and Rafael A. Calvo. 2017. "Positive
tecl	hnology, computing, and design: shaping a future in which technology promotes
psy	chological well-being." In Emotions and affect in human factors and human-compute
inte	eraction, pp. 477-502. Academic Press.
Jose	eph Weizenbaum. 1966. ELIZA—a computer program for the study of natural languag
	nmunication between man and machine. Commun. ACM 9, 1 (Jan. 1966), 36–45.
	ps://doi.org/10.1145/365153.365168
	<u>55// doi:015/ 10.11 10/ 000100100</u>
Tur	kle, Sherry. (1997). Life on the screen : identity in the age of the Internet. New York
Add	ditional information:
	nedule and venue for personal consultation: To be defined