Understanding and evaluating digital healthcare

Learning Outcomes: Understand use and functions of digitalisation in healthcare, distinguish between institution-related/(institution-)comprehensive/patient-related concepts and solutions, understand basic functioning of intelligent decision-making and support systems, identify relevant ethical and data protection requirements in the development and use, explain and apply research approaches for evaluation from a user or systemic perspective

Tasks & Activities:

Field Trip Lecture **Project Work Organizational Aspects** Visit of the exhibition • Theoretical background of Group project on online • 6 ETCS: Master programme digital technologies and therapy or chatbots or "MediCare" (Düsseldorf) to • Teaching hours (45get to know the latest their application in the augmented reality within 60min.): 40 hours healthcare or health sector technologies • Attendance time for physiotherapy (education) Presentation of various • Opportunity to make learners (total): 60 concepts and approaches • Development of a contact with exhibitors for hours (40 hours lecture to digital rehabilitation prototype applicable for future career and 20 hours Skills Lab) e.g. examination, • Self-study time for intervention, monitoring, learners: 120 hours evaluation, education • Max. 30 participants

Used Tools and Software: Zoom for presentation and project work, Padlet for online collaboration in lectures (brainstorming etc.), in-house Learning Management System for file sharing, Voiceflow and HoloLens 2 used in project groups





Understanding and evaluating assistive technologies

Learning Outcomes: Understand concepts of assistive technologies, understand the different types and settings used for different disabilities to design a personalized rehabilitation plan, understand how to operate the various types and features of environmental control systems, demonstrate and apply knowledge about assistive technology in an evaluation of an assistive technology device and case studies

Tasks & Activities:



• Introduction to eHealth Used Tools and Software Miss Word/Excel/PowerPoint for presentation and online collaporation and online collaporation gramme learns for lectures and mentoring is to S One Drive and tion boused earning Management System for tide is paring 50 big ital: documents (e.g. infographieseports of profession and strain and s Attendance time for learners: Students design an **Co-funded by** 52 hours technology devices • Optional: mentoring via eappropriate the European Union (electric wheelchairs etc.) mail or MS Teams technologica mpetences for the new era of user-driven digital rehadilitation learners: 18 hours Drocontations by guest and the second second from the second

Utilising digital environments for rehab. counselling

Learning Outcomes: Define social digital networks from the perspective of one's own profession and in working with customers, utilise digital environments and digital working practices, guide clients to use digital services, instruct the safe use of different digital environments

Tasks & Activities:

Self-directed preparation	Synchronous course work	Group Assignment	Organizational Aspects
 Watch videos and recordings Elaborate discussion questions Self-directed search and presentation preparation (mindmaps etc.) Self-directed preparation in the course topics 	 Introduction to course topics Discussion of the course topics Reflection and discussion of the elaborated discussion questions 	 Students evaluate the accessibility of selected websites from different perspectives (healthy users, users with different disabilities) Students perform screenreader testings 	 5 ECTS: Bachelor programme Teaching hours (45- 60min.): 14 hours per week Attendance time for learners: 28 hours Self-study time for learners: 72 hours Max. 20-30 participants

Used Tools and Software: Zoom for presentation and group work, Padlet/Flinga/Mentimeter for online collaboration and participation, in-house Learning Management System for video and file sharing, Windows Easy Access functions, Sotepeda247 Website (<u>https://sotepeda247.fi/</u>), different open course material libraries





Understanding and performing telehealth sessions

Learning Outcomes: Understand concepts of digital rehabilitation and telehealth via videoconferencing, understand differences in online HCP-client interactions, plan a telehealth session, apply different communication styles for the online context, conduct online assessment, care planning and management

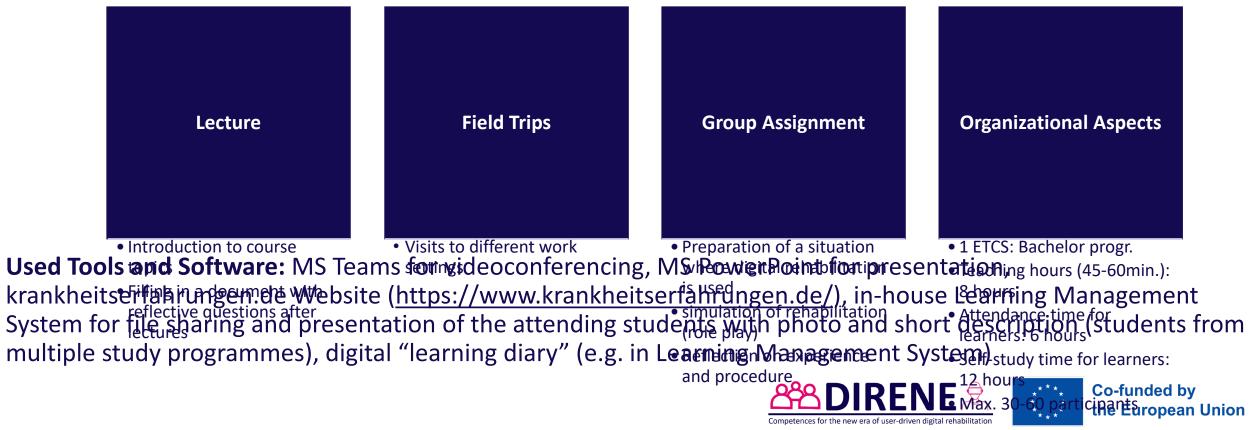
Tasks & Activities:



Simulating and reflecting on digital rehab. settings

Learning Outcomes: Prepare a digital rehabilitation setting, simulate a digital rehabilitation situation and reflect on it, choose adequate ICT tools and use them effectively, establish a collaborative relationship with a client, their family, and the interprofessional team, communicate effectively with all involved stakeholders, applied social-communicative competencies and work in a team

Tasks & Activities:



Use Case #6 Utilising mobile learning in digital rehabilitation

Learning Outcomes: Understand the rationale of utilising mobile learning in digital rehabilitation, understand the digitalization structure of different countries and regions, analyse and discuss the potential and benefits of mobile learning in digital rehabilitation, improve education and learning using mobile devices in Sub-Saharan countries

Tasks & Activities:

Lecture	Interactive Group Work	Assignment	Organizational Aspects
 Prerequisites of mobile learning (connectivity, devices, internet availability, digital literacy) maximize potentials of delivering mobile contents (simple, complete, engaging) 	 Brainstorming: importance of availability of mobile devices for the population Visual representation of an improved flow of education content using mobile devices 	 Preparation of a short course on rehabilitation for delivery on mobile devices 	 Bachelor/Master progr. Teaching hours (45-60min.): 90min. Attendance time for learners: 30min. Self-study time for learners: 60min. Min. 15-20 participants

Used Tools and Software: MS PowerPoint for presentation, Google forms, MS Teams and Zoom for group works and lectures, WhatsApp and telephone calls for communication, videos for delivering content





Using simulation pedagogy in digital guidance

Learning Outcomes: Training the client guidance using a digital rehabilitation platform. Evaluate the usability and usefulness of a digital rehabilitation platform in different kind of client situations.

Tasks & Activities:

Orientation and planning	Simulation	Self-reflection and feedback	Organizational Aspects
 Getting familiar with the case (individual work) Planning the guidance situation in group Dividing roles (client*, professional and observer/peer student) 	 Client and professional work in the digital rehabilitation platform performing the tasks defined in the orientation and planning phase Observer/peer student monitor the working and make the notes 	 Short self-reflection and feedback from all the participants starting with student(s) who are performing the task(s) 	 6 ETCS: Master programme Teaching hours (45-60min.): 40 hours Attendance time for learners (total): 60 hours (40 hours lecture and 20 hours Skills Lab) Self-study time for learners: 120 hours; Max. 30 participants

Used Tools and Software: Zoom, digital rehabilitation platform (e.g. <u>www.physitrack.com</u>). Simulation can be recorded and the recording can be watched during the feedback discussion. Tools and questionnaires related to usability can be used right after the situation (e.g. <u>www.measuringux.com/SUS.pdf</u>). More about simulation-based learning e.g. Lateef F. (2010). Simulation-based learning: Just like the real thing. Journal of emergencies, trauma, and shock, 3(4), 348–352. https://doi.org/10.4103/0974-2700.70743

(*it is possible to use also outsider/actor instead of peer student)



