Problembasiertes Lernen und digitale Lehre – Climate Change and the Effects on Health
(Klinik 03192323 und Vorklinik 03192324)

Ort und Zeit	Ort: Würzburg	Zeit: mittwochs 17:00 - 18:30 Uhr
Erster Termin:	Mittwoch, 26.04.2023, 17:00 – 18:30	
Einführungsveranstaltung:	Mittwoch, 26.04.2023, Ort: Lehrklinik, Medizinische Fakultät Würzburg, **Campus UKW Grombühl – Haus D5**	
Ansprechpartner/in:	Name: Dr. rer. nat. Oyudari Vova E-Mail: Vova_O@ukw.de	
	Name: Univ.-Prof. Dr. med. Sarah König E-Mail: Koenig_S7@ukw.de	
Anwesenheit	Anwesenheitspflicht * Ja Nein The teaching language is English. Group size: 10 students	
Zulässige Fehltermine	2 Sessions	
Prüfung	Within the framework of the elective course	
Prüfungsform	Active participation and brief presentation	
Veranstaltungsinhalte (optional)	Termin: Mittwoch, **26.04.2023** 17:00 – 18:30	
Inhalt	Introduction into the topic “Climate Change and the Effects on Health” and into the used didactic methods “Problem-based-learning and digital learning”	
Dozenten/innen	Univ.-Prof. Dr. med. Sarah König; Dr. Oyudari Vova	
Beschreibung (optional)	Face-to face teaching, Lehrklinik, **Seminarraum D5 (D5.1.011)**	
Veranstaltungsinhalte (optional)	Termin: Mittwoch, **03.05.2023** 17:00 – 18:30	
Inhalt	Introduction to the EN-Roads simulator	
Dozenten/innen	Dr. Oyudari Vova	
Beschreibung (optional)	Interactive Seminar, Face-to face teaching, Lehrklinik, **Besprechungsraum D6 (D6.1.010)**	
Veranstaltungsinhalte (optional)	Termin: Mittwoch, **10.05.2023** 17:00 – 18:30	
Inhalt	En-Roads - Simulation of climate change and testing measures to reduce global warming	
Dozenten/innen	Dr. Oyudari Vova	
Beschreibung (optional)	Interactive Seminar, Face-to face teaching, Lehrklinik, **Besprechungsraum D6 (D6.1.010)**	
Veranstaltungsinhalte (optional)	Termin: Mittwoch, **17.05.2023** 17:00 – 18:30	
Inhalt	Case „Air runs short” as PBL: exploring the problems and identification of learning objectives	
Dozenten/innen	Univ.-Prof. Dr. med. Sarah König; Dr. Oyudari Vova	
Beschreibung (optional)	Face-to face teaching, Lehrklinik, **Seminarraum EG (D5.0.012)** Please be aware that you need time for self-study after the session. You work on your defined learning objectives, search for information and prepare the results for a presentation (approx. 90 minutes required)	
Veranstaltungsinhalte (optional)	Termin: Mittwoch, **31.05.2023** 17:00 – 18:30	
Inhalt	Case „Air runs short” as PBL: presentation of case work and discussion	
Dozenten/innen	Univ.-Prof. Dr. med. Sarah König; Dr. Oyudari Vova	

Beschreibung (optional)	Face-to face teaching, Lehrklinik, **Besprechungsraum D6 (D6.1.010)**
Veranstaltungsinhalte (optional)	Termin: Mittwoch, **07.06.2023** 17:00 – 18:30
Inhalt	RealityStack: Introduction into the fully immersive classroom (Virtual reality)
Dozenten/innen	Dr. Oyudari Vova
Beschreibung (optional)	Face-to face teaching using the VR-system, **Lehrklinik, Seminarraum D5 (D5.1.011)**
Veranstaltungsinhalte (optional)	Termin: Mittwoch, **14.06.2023** 17:00 - 18:30
Inhalt	RealityStack : Built the VR Scene – "Green revolution" Learn how to build an interactive, green environment with 3D scenes by exploring tools and modulating VR-elements. The final scenes will be presented to the class during the VR session.
Dozenten/innen	Dr. Oyudari Vova
Beschreibung (optional)	RealityStack with VR- items on loan at home
Sonstiges	The elective course will be realized in a **face-to-face** (Lehrklinik) and various **digital formats,** the latter as online sessions on the videoconferencing platform Zoom and in VR. The online whiteboard Miro will be used to enhance interaction and collaboration in the classroom setting, as well as the interactive En-ROADS simulator. Using the method of **problem-based learning**, you will define learning objectives to understand the conditions of climate-change-sensitive illnesses, research patient problems with the aid of suitable sources of information, and finally present the results to peers as well as experts. As a novelty, we will be investigating the use of a fully immersive classroom with **VR** technology. Students will also built their own 3D model scenes in RealityStack. The session will enable students to explore solutions to climate change and the urban heat island effect, such as designing green spaces and making sustainable design choices. Taking part, you will gain a deeper understanding of climate change and how it is effected by the complex interplay of different factors that influence global carbon emissions. High temperatures can adversely affect mental health as well as cause physical illness. What can you learn from this elective course? • to understand the existing and potential health impacts of climate change • to identify climate-related health issues • to be aware of characteristics that may make certain individuals especially vulnerable to climate change, e.g. heatwaves • to build 3D scene models in a VR session • to explore benefits of (collaborative) learning with digital learning systems
Literaturangabe (optional)	• Terra X (Lesch) Video „Hitzetod trotz Schwitzen: Wird die Erde unbewohnbar?: https://www.zdf.de/dokumentation/terra-x/lesch-und-co-hitzetod-trotz-schwitzen-wird-die-erde-unbewohnbar-100.html • Editorial article: Call for Emergency Action to Limit Global Temperature Increase, restore biodiversity and Protect health https://www.nejm.org/doi/full/10.1056/NEJMe2113200?query=featured_home • Climate simulator: https://en-roads.climateinteractive.org/s • Skills to be learned and the scope of 7 steps of problem based learning: https://www.maastrichtuniversity.nl/education/why-um/problem-based-learning • Immersive classroom: https://vilearn.hci.uni-wuerzburg.de/about/ • Collaborative whiteboard: https://miro.com/de/login/