

# SEEP SYLLABUS

<b>Course title:</b>	Quantitative and Qualitative Methods I			
<b>Teacher(s):</b>	Stefanie Peer, Karin Sardadvar			
<b>Course credit:</b>	ECTS:10		Hours per week: 4	
<b>Semester</b>	<input type="checkbox"/> S1	<input checked="" type="checkbox"/> S2	<input type="checkbox"/> S3	<input type="checkbox"/> S4
<b>Expected prior knowledge</b>	<input type="checkbox"/> Yes		<input checked="" type="checkbox"/> No	
<b>Teaching method(s):</b>	Lectures, discussions, homework (in groups and individually), computer tutorials exams			
<b>Type(s) of evaluation:</b>	<input checked="" type="checkbox"/> Exam		<input type="checkbox"/> Written report	
	<input checked="" type="checkbox"/> Participation / Presentation		<input type="checkbox"/> Group project	
	Other	Homework assignments		
<b>Short course description</b>	<p>This course provides an introduction to qualitative and quantitative research methods and will provide information on 1) methodological underpinnings of research methods and research designs 2) different methods 3) use of statistical software (R) 4) applications to qualitative and quantitative data, and finally 5) the combination of quantitative and qualitative approaches in a fruitful manner.</p> <p>Besides becoming acquainted with qualitative and quantitative research methods, students will learn to critically reflect on applications of these methods, thereby building a foundation for the development of own research projects in the winter term.</p> <p>In the quantitative part, the emphasis will be on linear regression models, as well as models with discrete dependent variables (including discrete choice models). Examples will mostly be related to the topic of sustainable mobility.</p> <p>In the qualitative part, the focus will be on methodology, sampling and selected methods for data collection and analysis. Examples will mostly be related to the topic of sustainable work.</p>			
<b>Topics (summary keywords)</b>	Mixed methods, hypothesis testing, linear regression analysis, logit models, R; interviews, artefact analysis, participant observation, ethnography; appropriate and advanced data analysis.			
<b>Selected readings:</b>	<p>Huntington-Klein, N. (2021) The effect - an introduction to research design and causality (Chapters 1-4): <a href="https://theeffectbook.net/">https://theeffectbook.net/</a></p> <p>Train, K. E. (2009). Discrete choice methods with simulation. Cambridge university press. <a href="https://eml.berkeley.edu/books/choice2.html">https://eml.berkeley.edu/books/choice2.html</a></p> <p>Further literature will be announced in class.</p>			