## SEEP SYLLABUS

Course title:	Natural sciences (optional bridging course)							
Teacher(s):	Hanja Pisa, MSc.							
Course credit:	ECTS: -				Hours per week: 22,5			
Semester		S1		S2		S3		S4
Expected prior knowledge	□ Yes				⊠ No			
Teaching method(s):	<ul> <li>Input by lecturer</li> <li>Discussions and reflections</li> <li>Short student presentations (no homework)</li> </ul>							
Type(s) of evaluation:	П	□ Exam			П	Written report		
	□ Participation / Presentation					Group project		
	Other None							
Short course description	<ul> <li>Economy and society are embedded in biophysical systems, to which this course serves as an introduction, recap and overview. The following topics will be covered:</li> <li>Interdependent Systems: Humans in the Environment</li> <li>Planet Earth: Lithosphere, Hydrosphere, Atmosphere, Biosphere</li> <li>Planetary Boundaries</li> <li>Carbon Cycle, Global Warming, Tipping Points and IPCC</li> <li>Ecosystems, Biodiversity</li> <li>Thermodynamics</li> <li>Mathematical Foundations and Exponential Growth</li> <li>Evolution and Co-Evolution</li> <li>Complexity, Mathematics, and Model Building in Economic and Social Sciences</li> </ul>							
Topics (summary keywords)	atmos		cosyster	ns, growt	h, the	ermodynan	nics,	biophysical
Selected readings:								