

## Draft syllabus for a course on climate change – theme 1: The contribution of science

<i>Theme</i>	<i>Content</i> <i>Students will learn...</i>	<i>Learning objectives (and limitations)</i> <i>Students will be able to...</i>	<i>References to the manual</i>	<i>8 key competences</i>	<i>Activities</i> <i>Students will have the opportunity to do..., to read...</i>
<b>THE CONTRIBUTION OF SCIENCE</b>	1. Contribution of scientific Panels	IPCC reports The work of IPBES and IUCN Collaborative and citizen science		1, 2, 3	Know the structuring of expert groups Engaging in participatory projects
	2. Fundamental concepts	The notion of tipping points Planetary boundaries The Carbon Budget and Markets (ETS), Carbon Offset Nature's contributions versus ecosystem services The need to reduce GHG emissions		1, 2, 3, 6,8	Cutx% app
	3. The science of complexity	Definition and limits Examples of complex systems Stability, Instability, resilience of systems Theory of Panarchy		1, 3, 4, 5	Study of D.Meadows' book "THinking in system"
	4. Climate change	Radiative forcing and warming The notion of albedo Greenhouse gas emissions IPCC climate trajectories Mitigation and adaptation		3, 4, 5	