

Course Title: Planet B - Simulation Gamification on Systemic Decision Making in Global Sustainability Actions (SDG based)

Course form	Workshop - Gamification
Study type	Undergraduate (Bachelor level)
Module responsible	Prof. Dr. Siegfried Zürn, siegfried.zuern@hs-esslingen.de
Language	English
Turnus	On request
Recommended prerequisites	English level B2
Course description	<u>Areas of expertise</u> - Gaining professional competence through practical training about the intercorrelations of SDGs and the necessity to think and act in a systems perspective to achieve improvements in sustainability on local, regional and global level. - Methodological competence by integrating sustainability aspects into political decision making processes <u>Learning outcomes</u> The focus is on developing an understanding of systems, thinking in interrelationships and promoting decision-making skills based on the method of Systems Thinking. Students will understand the complexity of sustainability aspects and their interactions. They will be able to change perspectives on a global level and learn to work across disciplines to achieve results even within a system of conflicting individual goals. <u>Content</u> 1. Theory/ Introduction - Introduction to the SDG system - (Varied) global approaches to sustainability - Systems Thinking methodology 2. Simulation Game Workshop 3. Debriefing and Self-reflection
Assessment type	Study assignment, contribution during the gamification and debriefing, self-reflection (written)
Credit hours	2
Credits	2
Literature	Arnold, R. D., & Wade, J. P. (2015). A definition of systems thinking: A systems approach. <i>Procedia computer science</i>, 44, 669-678. Hák, T., Janoušková, S., & Moldan, B. (2016). Sustainable Development Goals: A need for relevant indicators. <i>Ecological indicators</i>, 60, 565-573. Rajagopal, R., Hettiarachchi, C., & Zürn, S. G. (2024). Using a Result-Oriented Systems Thinking approach to design and evaluate strategies for the digital transformation management of

	small and medium-sized enterprises (SMEs). Sustainable Manufacturing and Service Economics, 3 Sachs, J., Kroll, C., Lafortune, G., Fuller, G., & Woelm, F. (2022). Sustainable development report 2022. Cambridge University Press. UN - Department of Economic and Social Affairs (n.d.). The 17 Goals. https://sdgs.un.org/goals UN - Department of Economic and Social Affairs (2024). Inter-agency policy briefs on accelerating progress on the 2030 Agenda from local to global levels https://sdgs.un.org/publications/inter-agency-policy-briefs-accelerating-progress-2030-agenda-local-global-levels
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