



17 - 23 May 2026: SOUTH WESTPHALIA INTERNATIONAL SUSTAINABILITY WEEK

There is no future without thinking, acting, and living sustainably. In summer 2026, we at South Westphalia UAS would like to invite you to our second Erasmus+ South Westphalia International Sustainability Week where we will discuss sustainable futures by exploring the United Nations' 17 Sustainable Development Goals (SDGs), global guideposts for sustainable action.

Designed as field-specific blended modules on individual SDGs in engineering and early childhood education, we will all meet in our campus location Soest from 17 to 23 May 2026 to examine what sustainability can be for us as individuals and in our disciplines. Participating in a field excursion, lab work, and group activities, students will acquire skills for sustainable awareness based on the framework of the Inner Development Goals tailored to their disciplines/recognized in their home study program.

Come and join us for an exciting summer experience to contribute to a sustainable future. 😊

MODUL/KURSANGEBOT

Affordable and Clean Energy (SDG 7): Hydrogen as a clean energy carrier					
Short name	Workload	Credit Points	Preparatory	Face-to-Face	Conclusion and final project work
H2E	90 h/ 150 h	3 ECTS/ 5 ECTS	6 x 3 h (online) + 12 h self-study phase	International Sustainability Week	2 x 3 h (online) + 12 h self-study phase (project work for extra 2 ECTS)
1	Group size	International students		German students	
		10 to 12		4 to 6	
2	<p>Contents</p> <p>Hydrogen is regarded as one of the most important energy carriers for a sustainable energy supply. In this module we will discuss the following subjects and questions:</p> <ul style="list-style-type: none"> ▪ Characteristics of hydrogen, advantages and challenges in connection with hydrogen as an energy carrier. ▪ What role can hydrogen play in a sustainable energy supply? How can hydrogen contribute to the UN Sustainable Development Goals (SDGs)? ▪ Stationary and mobile applications for hydrogen. ▪ What is the status quo of hydrogen use worldwide/in Europe/in Germany? <p>As a part of these discussions, we will gather experiences and facts regarding hydrogen use in the participants' home countries. Furthermore, we will try to identify topics for research and development in connection with hydrogen.</p> <p>During the International Sustainability Week, we will develop a demonstrator that illustrates the generation and technical use of hydrogen.</p> <p>The module contributes to the UN Sustainable Development Goals "Affordable and clean energy" (SDG 7) and "Climate Action" (SDG 13).</p>				
3	<p>Learning outcomes</p> <ul style="list-style-type: none"> ▪ Comparative insight into hydrogen as an energy carrier and as a part of a sustainable energy supply. ▪ Theoretical and practical knowledge about hydrogen applications. ▪ Improvement of the ability to work in international teams. 				

4	<p>Teaching and learning methods</p> <ul style="list-style-type: none"> ▪ Online teaching consisting of short lectures, group work/discussions, presentations and self-study phases in the preparatory phase; ▪ Laboratory work during the International Sustainability Week; ▪ Online group work and self-study phases after the International Sustainability Week. ▪ Field trip.
5	<p>Prerequisites</p> <ul style="list-style-type: none"> ▪ Basic knowledge of chemistry and/or thermodynamics.
6	<p>Requirements for the awarding of credits</p> <ul style="list-style-type: none"> ▪ On-time submission of preparatory work: independent reading of assigned course material; short presentation of a selected topic from the preparatory phase. ▪ Active participation in online courses and the International Sustainability Week, including the laboratory project. ▪ 8–10-page reflection paper on the laboratory project work to be submitted on time. ▪ 5 ECTS only: Report on a selected topic from the course to be submitted on time.
7	<p>Module responsible / Lecturer</p> <ul style="list-style-type: none"> ▪ Mark Schülke, Alexander Schaaf
8	<p>Literature</p> <ul style="list-style-type: none"> ▪ A. Züttel, A. Borgschulte, and L. Schlapbach, editors: Hydrogen as a Future Energy Carrier. Wiley-VCH, Weinheim, 2008.
9	<p>Additional information (to complete: Link to the associated a Moodle-course)</p>