



CSH / Arbeitsstelle Hochschuldidaktik
Winter School 2026

Agentic Workflows for Research and Teaching

with Erik-Jan Senn

November – December 2026

Online and at the University of Hohenheim

Overview

Turn recurring research and teaching tasks into reusable AI-assisted workflows. In this practical course, you will work with AI agents: tools that use language models to perform tasks, edit project files, and use software under your direction. Examples include analysing data, creating visualizations, and preparing or revising teaching materials.

The course combines three elements:

- **Foundations:** Understand how language models generate responses and why context, information retrieval, and model limitations matter when working with agents.
- **Guided practice:** Define tasks, provide relevant information, and guide agents with project instructions and reusable skills. Practise checking outputs, reviewing file changes, tracking versions with Git, and setting permissions and human review points.
- **Your project:** Develop, test, and refine one workflow for a research or teaching task of your own. Document how to use it and where human review remains necessary.

Learning goals: By the end of the course, participants will be able to:

- Explain the capabilities and limitations of language models and AI agents.
- Select suitable tasks and guide agents with clear instructions, relevant context, and appropriate human oversight.
- Build and evaluate a reusable workflow for research or teaching.

The schedule

Two 2-hour online sessions and a 4-hour workshop on campus: 8 scheduled hours in total.

Session	Duration	Date and time (CET)
Online session 1	2 hours	26 November 2026, 16:00–18:00
In-person workshop	4 hours	3 December 2026, 16:00–20:00
Online session 2	2 hours	18 December 2026, 14:00–16:00

Venue: University of Hohenheim, Stuttgart. The room and online access details will be sent to registered participants.

Course language: English.



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Target Audience

The course welcomes researchers, university teachers, and students at any career stage interested in AI for research and teaching.

Maximum group size: 25 participants.

Prerequisites: No prior experience with AI agents is required; familiarity with AI tools is helpful. Bring a research or teaching task for your course project.

Fees, Devices and Credits

Registration: Register via weiterbildung.uni-hohenheim.de by **15 November 2026**.

No Fees: Participation is free of charge.

Devices and access: Bring a laptop and charger to the in-person workshop. Online sessions are held via Zoom. The planned setup uses Visual Studio Code (VS Code), Git, and an AI agent tool with access to a language model.

You must have your own account for the AI services used in the course (e.g. ChatGPT or Claude). Set up access before the first session using the instructions provided. Accounts and subscriptions are not provided; any costs are your responsibility. A paid plan is recommended but not required.

Certificate credit: The workshop counts as 8 units (Arbeitseinheiten, AE) towards the Baden-Württemberg-Zertifikat für Hochschuldidaktik.

Funding

The workshop is financed through the University of Hohenheim's 2026 special funding programme for curriculum and degree programme development in the age of AI. The programme is administered by the University's Arbeitsstelle Hochschuldidaktik.

Contact

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