

Syllabus

Kursbeschreibung

Titel der Lehrveranstaltung	AI-assisted Literature Review
Code der Lehrveranstaltung	71080
Zusätzlicher Titel der Lehrveranstaltung	
Wissenschaftlich-disziplinärer Bereich	IINF-05/A
Sprache	Englisch
Studiengang	Doktoratsstudium in Informatik
Andere Studiengänge (gem. Lehrveranstaltung)	
Dozenten/Dozentinnen	Prof. Ilenia Fronza, Ilenia.Fronza@unibz.it https://www.unibz.it/en/faculties/engineering/academic-staff/person/17458
Wissensch. Mitarbeiter/Mitarbeiterin	
Semester	Erstes Semester
Studienjahr/e	2025 - 2026
KP	1
Vorlesungsstunden	10
Laboratoriumsstunden	0
Stunden für individuelles Studium	15
Vorgesehene Sprechzeiten	
Inhaltsangabe	Manually preparing and writing a literature review takes considerable time and effort. However, tools now exist to review large knowledge bases and deliver meaningful insights in a matter of minutes. Throughout this course, students will explore which stages of the literature review process can be automated using AI and to what extent human involvement remains necessary. Students will have the opportunity to engage in a hands-on

	assignment where they will apply their knowledge to develop the literature review required for their doctoral program. This assignment aims to deepen their understanding and enhance their research skills. • Literature Review: stages and guidelines • Automating literature reviews using AI
Themen der Lehrveranstaltung	• Literature Review: stages and guidelines • Automating literature reviews using AI
Stichwörter	Artificial Intelligence, Literature review
Empfohlene Voraussetzungen	
Propädeutische Lehrveranstaltungen	
Unterrichtsform	The course consists of 3 modules, combining frontal lectures, hands-on activity, and group discussions. The first introductory module lasts 2 hours and focuses on theoretical foundations. The second module lasts 4 hours and is dedicated to hands-on activities to experiment with automating literature reviews using AI. In the final module, also 4 hours long, students will present their findings and engage in a discussion about the advantages and disadvantages of using AI for literature reviews.
Anwesenheitspflicht	Not compulsory but recommended. Non-attending students must contact the lecturer at the start of the course to agree on the modalities of the independent study.
Spezifische Bildungsziele und erwartete Lernergebnisse	...
Spezifisches Bildungsziel und erwartete Lernergebnisse (zusätzliche Informationen)	
Art der Prüfung	Students will have the opportunity to engage in a hands-on assignment where they will apply their knowledge to develop the literature review required for their doctoral program. The assignment will be evaluated and discussed during the course. Non-attending students will work on the assignment autonomously and present it in the final module.

Bewertungskriterien	The exam is graded on a pass/fail basis with no marks awarded. The following criteria are relevant for the assessment: - Communication clarity and effectiveness. - Ability to summarize, evaluate, and establish relationships between topics. - Ability to apply the tools, methods, and processes introduced in the course to specific cases.
Pflichtliteratur	The reading material is specified during the course.
Weiterführende Literatur	
Weitere Informationen	
Ziele für nachhaltige Entwicklung (SDGs)	Hochwertige Bildung