

Course: Big Data AG

General information	
Course Name	Big Data AG Big Data Working Group
Course code	BDWG
Lecturer(s)	B.Sc. Gerth, Jonas (jonas.gerth@haw-kiel.de) Prof. Dr. Lüssem, Jens (jens.luessem@haw-kiel.de)
Occurrence frequency	Regular
Module occurrence	In der Regel jedes Semester
Language	Englisch

Qualification outcome
<i>Areas of Competence: Knowledge and Understanding; Use, application and generation of knowledge; Communication and cooperation; Scientific self-understanding / professionalism.</i>
Students know the advantages and limits of Big Data Applications. Students know the steps to set up a Big Data Application.
Students are able to build Big Data Architectures and are able to work with real world scenarios: <ul style="list-style-type: none"> - Architecture - Data Storage - Data Analysis - Visualization
Students are able to work in groups. Students are able to discuss with domain experts.

Content information	
Content	Contents: <ul style="list-style-type: none"> - Big Data Ecosystems - Big Data Programming Languages: Python, R - Methods for Data Analysis - Data Visualization Techniques
Literature	<ul style="list-style-type: none"> - Kleppmann, M.: Designing Data-Intensive Applications: The Big Ideas Behind Reliable, Scalable, and Maintainable Systems (2017) - Hadoop References (Online Material) - Udacity (Nano Degree Course). Big Data Foundation (2018)

Teaching format of this course	
Teaching format	SWS
Projekt	2

Examinations	
BDWG - Projektbezogene Arbeiten	Method of Examination: Projektbezogene Arbeiten Weighting: 100% wird angerechnet gem. § 11 Absatz 2 PVO: Yes Graded: Yes
Ungraded Course Assessment	No