

<b>Module title</b>		<b>Abbreviation</b>
Introduction to Physical Geography: Climate System and Human-Environment-Interactions		04-Geo-PG1Kl-232-m01
<b>Module coordinator</b>		<b>Module offered by</b>
holder of the Professorship of Climatology		Institute of Geography and Geology
<b>ECTS</b>	<b>Method of grading</b>	<b>Only after succ. compl. of module(s)</b>
5	numerical grade	--
<b>Duration</b>	<b>Module level</b>	<b>Other prerequisites</b>
1 semester	undergraduate	--
<b>Contents</b>		
The following basics of the Earth's climate system will be presented: terrestrial and celestial mechanical basics; radiation and energy; vertical and horizontal flow dynamics; data sources, characteristics and variability of the Earth's climate system.		
<b>Intended learning outcomes</b>		
The students will gain a basic physical understanding of the Earth's climate system.		
<b>Courses</b> (type, number of weekly contact hours, language — if other than German)		
V (3) Module taught in: German and/or English		
<b>Method of assessment</b> (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)		
written examination (approx. 45 minutes) Language of assessment: German and/or English		
<b>Allocation of places</b>		
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<b>Additional information</b>		
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<b>Workload</b>		
150 h		
<b>Teaching cycle</b>		
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<b>Referred to in LPO I</b> (examination regulations for teaching-degree programmes)		
§ 47 I Nr. 1 § 66 I Nr. 1		
<b>Module appears in</b>		
Bachelor' degree (1 major) Biology (2011) Bachelor' degree (1 major) Chemistry (2010) Bachelor' degree (1 major) Physics (2012) Bachelor' degree (1 major) Psychology (2010) Bachelor' degree (1 major) Economathematics (2012) Bachelor' degree (1 major) Romanic Languages (French/Spanish) (2013) Bachelor's degree (1 major, 1 minor) Pedagogy (2011) Bachelor's degree (1 major, 1 minor) Pedagogy (2013) Bachelor's degree (1 major, 1 minor) French Studies (2013) Bachelor's degree (1 major, 1 minor) History (2010) Bachelor's degree (1 major, 1 minor) Pre- and Protohistoric Archaeology (2012) Bachelor's degree (1 major, 1 minor) Spanish Studies (2010) Bachelor's degree (1 major, 1 minor) Political and Social Studies (2013)		

Bachelor's degree (1 major, 1 minor) English and American Studies (2010)  
 Bachelor's degree (1 major, 1 minor) Russian Language and Culture (2008)  
 Bachelor's degree (1 major, 1 minor) Gallo-Roman philology (2010)  
 Bachelor's degree (1 major, 1 minor) German Language and Literature (2013)  
 Bachelor's degree (1 major, 1 minor) German Language and Literature (2010)  
 Bachelor's degree (1 major, 1 minor) Italian Studies (2010)  
 Bachelor's degree (2 majors) Classical Archaeology (2013)  
 Bachelor's degree (2 majors) Pedagogy (2013)  
 Bachelor's degree (2 majors) Philosophy (2013)  
 Bachelor's degree (2 majors) Special Education (2009)  
 Bachelor's degree (2 majors) Digital Humanities (2012)  
 Bachelor's degree (2 majors) Political and Social Studies (2011)  
 Bachelor's degree (2 majors) Russian Language and Culture (2012)  
 Bachelor's degree (2 majors) European Ethnology (2013)  
 Magister Theologiae Catholic Theology (2013)  
 Bachelor's degree (2 majors) English and American Studies (2009)  
 Bachelor's degree (2 majors) German Language and Literature (2013)  
 Bachelor' degree (1 major) Chemistry (2015)  
 Bachelor' degree (1 major) Geography (2015)  
 Bachelor' degree (1 major) Mathematics (2015)  
 Bachelor' degree (1 major) Musicology (2015)  
 Bachelor' degree (1 major) Physics (2015)  
 Bachelor' degree (1 major) Psychology (2015)  
 Bachelor' degree (1 major) Business Management and Economics (2015)  
 Bachelor' degree (1 major) Nanostructure Technology (2015)  
 Bachelor' degree (1 major) Biomedicine (2015)  
 Bachelor' degree (1 major) Music Education (2015)  
 Bachelor' degree (1 major) Computational Mathematics (2015)  
 Bachelor' degree (1 major) Political and Social Studies (2015)  
 Bachelor' degree (1 major) Functional Materials (2015)  
 Bachelor' degree (1 major) Academic Speech Therapy (2015)  
 Bachelor' degree (1 major) Indology/South Asian Studies (2015)  
 Bachelor's degree (1 major, 1 minor) Egyptology (2015)  
 Bachelor's degree (1 major, 1 minor) Pedagogy (2015)  
 Bachelor's degree (1 major, 1 minor) History (2015)  
 Bachelor's degree (1 major, 1 minor) Musicology (2015)  
 Bachelor's degree (1 major, 1 minor) Philosophy (2015)  
 Bachelor's degree (1 major, 1 minor) Pre- and Protohistoric Archaeology (2015)  
 Bachelor's degree (1 major, 1 minor) Ancient World (2015)  
 Bachelor's degree (1 major, 1 minor) Music Education (2015)  
 Bachelor's degree (1 major, 1 minor) Philosophy and Religion (2015)  
 Bachelor's degree (1 major, 1 minor) Theological Studies (2015)  
 Bachelor's degree (1 major, 1 minor) Political and Social Studies (2015)  
 Bachelor's degree (1 major, 1 minor) Russian Language and Culture (2015)  
 Bachelor's degree (1 major, 1 minor) German Language and Literature (2015)  
 Bachelor's degree (2 majors) Egyptology (2015)  
 Bachelor's degree (2 majors) Pedagogy (2015)  
 Bachelor's degree (2 majors) Protestant Theology (2015)  
 Bachelor's degree (2 majors) Musicology (2015)  
 Bachelor's degree (2 majors) Philosophy (2015)  
 Bachelor's degree (2 majors) Special Education (2015)  
 Bachelor's degree (2 majors) Pre- and Protohistoric Archaeology (2015)  
 Bachelor's degree (2 majors) Latin Philology (2015)

Bachelor's degree (2 majors) Music Education (2015)  
 Bachelor's degree (2 majors) Philosophy and Religion (2015)  
 Bachelor's degree (2 majors) Theological Studies (2015)  
 Bachelor's degree (2 majors) Digital Humanities (2015)  
 Bachelor's degree (2 majors) Political and Social Studies (2015)  
 Bachelor's degree (2 majors) Russian Language and Culture (2015)  
 Bachelor's degree (2 majors) Greek Philology (2015)  
 Bachelor's degree (2 majors) European Ethnology (2015)  
 Bachelor's degree (2 majors) Indology/South Asian Studies (2015)  
 Bachelor's degree (2 majors) Ancient Near Eastern Studies (2015)  
 Bachelor's degree (2 majors) Geography (2015)  
 Bachelor's degree (2 majors) French Studies (2015)  
 Bachelor's degree (2 majors) History (2015)  
 Bachelor's degree (2 majors) Sport Science (Focus on health and Pedagogics in Movement) (2015)  
 Bachelor's degree (2 majors) German Language and Literature (2015)  
 Bachelor' degree (1 major) Mathematical Physics (2016)  
 Bachelor's degree (2 majors) Theological Studies (2011)  
 Bachelor's degree (1 major, 1 minor) French Studies (2016)  
 Bachelor's degree (2 majors) French Studies (2016)  
 Bachelor's degree (1 major, 1 minor) Italian Studies (2016)  
 Bachelor's degree (2 majors) Italian Studies (2016)  
 Bachelor's degree (1 major, 1 minor) Spanish Studies (2016)  
 Bachelor's degree (2 majors) Spanish Studies (2016)  
 Bachelor' degree (1 major) Romanic Languages (French/Italian) (2016)  
 Bachelor' degree (1 major) Romanic Languages (French/Spanish) (2016)  
 Bachelor' degree (1 major) Romanic Languages (Italian/Spanish) (2016)  
 Bachelor' degree (1 major) Business Information Systems (2016)  
 Bachelor' degree (1 major) Games Engineering (2016)  
 Bachelor's degree (1 major, 1 minor) English and American Studies (2016)  
 Bachelor's degree (2 majors) English and American Studies (2016)  
 Bachelor' degree (1 major) Media Communication (2016)  
 Bachelor' degree (1 major) Food Chemistry (2016)  
 Bachelor's degree (1 major, 1 minor) Digital Humanities (2016)  
 Bachelor' degree (1 major) Biology (2017)  
 Bachelor's degree (1 major, 1 minor) Geography (2017)  
 Bachelor's degree (1 major, 1 minor) History of Medieval and Modern Art (2017)  
 Bachelor's degree (2 majors) History of Medieval and Modern Art (2017)  
 Bachelor's degree (2 majors) Comparative Indo-European Linguistics (2017)  
 Bachelor' degree (1 major) Aerospace Computer Science (2017)  
 Bachelor' degree (1 major) Modern China (2017)  
 Bachelor' degree (1 major) Biochemistry (2017)  
 Bachelor' degree (1 major) Chemistry (2017)  
 Bachelor's degree (1 major, 1 minor) Museology and material culture (2017)  
 Bachelor' degree (1 major) Economathematics (2017)  
 Bachelor' degree (1 major) Games Engineering (2017)  
 Bachelor' degree (1 major) Computer Science (2017)  
 Bachelor' degree (1 major) Media Communication (2018)  
 Bachelor' degree (1 major) Biomedicine (2018)  
 Bachelor' degree (1 major) Human-Computer Systems (2018)  
 Bachelor's degree (2 majors) Classical Archaeology (2018)  
 Bachelor's degree (1 major, 1 minor) Classical Archaeology (2018)  
 Bachelor's degree (1 major, 1 minor) Digital Humanities (2018)  
 Bachelor's degree (2 majors) Digital Humanities (2018)

Bachelor' degree (1 major) Computer Science (2019)  
 Bachelor's degree (1 major, 1 minor) English and American Studies (2019)  
 Bachelor's degree (1 major, 1 minor) Indology/South Asian Studies (2019)  
 Bachelor' degree (1 major) Indology/South Asian Studies (2019)  
 Bachelor' degree (1 major) Business Information Systems (2019)  
 Bachelor's degree (2 majors) Indology/South Asian Studies (2019)  
 Bachelor' degree (1 major) Business Management and Economics (2019)  
 Bachelor' degree (1 major) Modern China (2019)  
 Bachelor' degree (1 major) Food Chemistry (2019)  
 Bachelor' degree (1 major) Biomedicine (2020)  
 Bachelor' degree (1 major) Pedagogy (2020)  
 Bachelor' degree (1 major) Political and Social Studies (2020)  
 Bachelor' degree (1 major) Business Information Systems (2020)  
 Bachelor's degree (1 major, 1 minor) Political and Social Studies (2020)  
 Bachelor's degree (2 majors) European Ethnology (2020)  
 Bachelor's degree (2 majors) Political and Social Studies (2020)  
 Bachelor's degree (2 majors) Special Education (2020)  
 Bachelor' degree (1 major) Physics (2020)  
 Bachelor' degree (1 major) Nanostructure Technology (2020)  
 Bachelor' degree (1 major) Mathematical Physics (2020)  
 Bachelor' degree (1 major) Aerospace Computer Science (2020)  
 Bachelor's degree (1 major, 1 minor) Museology and material culture (2020)  
 Bachelor's degree (1 major, 1 minor) Pedagogy (2020)  
 Bachelor's degree (2 majors) Pedagogy (2020)  
 Bachelor' degree (1 major) Psychology (2020)  
 Bachelor' degree (1 major) Biology (2021)  
 Magister Theologiae Catholic Theology (2021)  
 Bachelor's degree (2 majors) History (2021)  
 Bachelor's degree (1 major, 1 minor) History (2021)  
 Bachelor' degree (1 major) Media Communication (2021)  
 Bachelor's degree (2 majors) Theological Studies (2021)  
 Bachelor's degree (1 major, 1 minor) Theological Studies (2021)  
 Bachelor's degree (1 major, 1 minor) English and American Studies (2021)  
 Bachelor's degree (2 majors) English and American Studies (2021)  
 Bachelor' degree (1 major) Functional Materials (2021)  
 Bachelor' degree (1 major) Computer Science und Sustainability (2021)  
 Bachelor's degree (2 majors) Comparative Indo-European Linguistics (2021)  
 Bachelor' degree (1 major) Food Chemistry (2021)  
 Bachelor' degree (1 major) Quantum Technology (2021)  
 Bachelor's degree (2 majors) Special Education (2021)  
 Bachelor' degree (1 major) Business Information Systems (2021)  
 Bachelor' degree (1 major) Econometrics (2021)  
 Bachelor' degree (1 major) Business Management and Economics (2021)  
 Bachelor' degree (1 major) Human-Computer Systems (2022)  
 Bachelor's degree (1 major, 1 minor) Museology and material culture (2022)  
 Bachelor' degree (1 major) Biochemistry (2022)  
 Bachelor' degree (1 major) Biology (2022)  
 Bachelor' degree (1 major) Econometrics (2022)  
 Bachelor' degree (1 major) Mathematical Data Science (2022)  
 Bachelor' degree (1 major) Artificial Intelligence and Data Science (2022)  
 Bachelor's degree (2 majors) Ancient Near Eastern Archaeology (2022)  
 Bachelor's degree (1 major, 1 minor) Ancient World (2022)  
 Bachelor's degree (2 majors) Ancient Near Eastern Studies (2022)

Bachelor' degree (1 major) Franco-German studies: language, culture, digital competence (2022)  
 Bachelor' degree (1 major) Midwifery (2022)  
 First state examination for the teaching degree Gymnasium Geography (2023)  
 First state examination for the teaching degree Realschule Geography (2023)  
 First state examination for the teaching degree Grundschule Geography (2023)  
 First state examination for the teaching degree Mittelschule Geography (2023)  
 Bachelor' degree (1 major) European Law (2023)  
 Bachelor's degree (1 major, 1 minor) English and American Studies (2023)  
 Bachelor's degree (2 majors) English and American Studies (2023)  
 Bachelor' degree (1 major) Artificial Intelligence and Data Science (2023)  
 Bachelor' degree (1 major) Mathematics (2023)  
 Bachelor' degree (1 major) Business Information Systems (2023)  
 Bachelor' degree (1 major) Econometrics (2023)  
 Bachelor's degree (1 major, 1 minor) History of Medieval and Modern Art (2023)  
 Bachelor's degree (2 majors) History of Medieval and Modern Art (2023)  
 Bachelor's degree (2 majors) Special Education (2023)  
 Bachelor' degree (1 major) Business Management and Economics (2023)  
 Bachelor' degree (1 major) Geography (2023)  
 Bachelor's degree (2 majors) Geography (2023)  
 Bachelor's degree (1 major, 1 minor) Geography (Minor, 2023)  
 Bachelor's degree (1 major, 1 minor) Geography (2023)  
 Bachelor's degree (2 majors) European Ethnology/Empiric Cultural Studies (2023)  
 Bachelor' degree (1 major) Mathematical Physics (2024)  
 Bachelor's degree (2 majors) German Language and Literature (2024)  
 Bachelor's degree (1 major, 1 minor) German Language and Literature (2024)  
 Bachelor' degree (1 major) Music Education (2024)  
 Bachelor's degree (2 majors) Music Education (2024)  
 Bachelor's degree (1 major, 1 minor) Music Education (2024)  
 Bachelor' degree (1 major) Indology/South Asian Studies (2024)  
 Bachelor's degree (2 majors) Indology/South Asian Studies (2024)  
 Bachelor's degree (1 major, 1 minor) Indology/South Asian Studies (2024)  
 Bachelor's degree (1 major, 1 minor) Ancient World (2024)  
 Bachelor's degree (2 majors) Digital Humanities (2024)  
 Bachelor's degree (1 major, 1 minor) Digital Humanities (2024)  
 Bachelor' degree (1 major) Midwifery (2024)  
 Bachelor's degree (2 majors) Greek Philology (2024)  
 Bachelor's degree (2 majors) Latin Philology (2024)  
 Bachelor' degree (1 major) Business Information Systems (2024)  
 Bachelor' degree (1 major) Econometrics (2024)  
 Bachelor' degree (1 major) Business Management and Economics (2024)  
 Bachelor' degree (1 major) Artificial Intelligence and Data Science (2024)  
 Bachelor' degree (1 major) Human-Computer-Interaction (2024)