Module Name	1.2 Hydrology and Climatology
Identification code	AEF278, EM1.2, EH-CAU405
	(QIS-registration for examination) 71200
Subtitle	
Courses embedded	
Term	Winter
Coordinator	Prof. Dr. N. Fohrer
Teachers	Basics of hydrology : Prof. Dr. N. Fohrer
	Basics of climatology: Dr. Baese
Tuition language	English
Programme involvement	Elective MSc Environmental Management,
	Elective MSc Ecohydrology
	BSc Geography
Teaching form,	Basics of hydrology: formal lecture (20 h/60 h),
contact time per week	practical (10 h/30 h)
	Basics of climatology: formal lecture (20 h/60 h),
100	practical (10 h/30 h)
Workload overall	180h
Contact time	60h
ECTS credit points	6
Preconditions prescribed	
Prerequisites recommended	
Learning outcomes	Hydrology: Students understand the basics of the hydrologic cycle and
	are able to interpret the effectivity of different measures and proceses
	as well as the impact of anthropogenic interferences.
	Climatalagus Studenta understand the basics of climatalagia processes
	Climatology: Students understand the basics of climatologic processes and their influence on the local microclimate. Students are able to
	calculate radiation – and thermal balances for different locations
	The practical part of this module teaches students to use publicly
	available data sources.
Content	Principles of Hydrology: History of hydrology, water as a substance,
Contont	water cycle, water balance equation, climatic input parameters, energy
	budget, evapotranspiration, soil water budget, rivers, groundwater,
	examples, calculations to quantify water budget, water quality, drinking
	water, waste water, treatment, irrigation
	Principles of Climatology: heat balance, radiation balance, evaporation,
	transpiration, formation of local and regional microclimate.
Assessment	Oral 100%
Teaching media	
References	Online lecture notes: OLAT
	RC Ward & M. Robinson, 2000: Principles of hydrology. Mc Graw Hill,
	4th edition.450p.
	T. Davie, 2002: Fundamentals of hydrology. Routledge Fundamentals of
	physical geography.169p.
Contact	Prof. Dr. agr. Nicola Fohrer
	Fon:+49 431 880-1276
1	Fax:+49 431 880-4607
	E-Mail: nfohrer@hydrology.uni-kiel.de
	www: http://www.hydrology.uni-kiel.de/mitarbeiter/nfohrer