

Module Name	1.4 GIS & modelling – basics
Identification code	AEF281, EM1.4 (QIS-registration for examination) 71400
Subtitle	
Courses embedded	
Term	Winter
Coordinator	Prof. Dr. N. Fohrer
Teachers	Prof. Dr. N. Fohrer, Christian Knechtel
Tuition language	English
Programme involvement	Elective MSc Environmental Management
Teaching form, contact time per week class size	formal lecture 30 h/60 h practical 30 h/60 h 25
Workload overall	180h
Contact time	60h
ECTS credit points	6
Preconditions prescribed	Basic knowledge in computer applications
Prerequisites recommended	
Learning outcomes	Students are familiar with the basics of Geographic Information Systems (GIS) and able to accomplish a purposeful data research. Students know the basic approaches of spatial modelling and are able to carry out spatial data analysis.
Content	GIS: introduction to cartography, design and typology of digital maps, specialities of thematic maps as well as land register maps and official digital charts, publicly available charts, ortho- photos and maps, scales, references, projections and precision Modelling: possibilities and limits of spatial modelling, spatial data analysis
Assessment	Project 100%
Teaching media	Powerpoint-Präsentationen, Computer exercises
References	- online lecture notes: OLAT - P. Burrough & R. McDonnell, 2000: Principles of Geographical Information Systems. Oxford University Press.
Contact	Prof. Dr. agr. Nicola Fohrer Fon:+49 431 880-1276 Fax:+49 431 880-4607 E-Mail: nfohrer@hydrology.uni-kiel.de www: http://www.hydrology.uni-kiel.de/mitarbeiter/nfohrer