Module Name	3.2.5 Hydrological and hydraulic modeling
Identification code	AEF415, EM3.2.5, AE-CAU320, EH-CAU406
	(QIS-registration for examination) 73100
Subtitle	
Courses embedded	
Term	Annually in winter semester
Coordinator	Prof. Dr. N. Fohrer
Teachers	Prof. Dr. N. Fohrer, Dr. B. Guse
Tuition language	English
Programme involvement	Elective MSc Environmental Management
_	Elective MSc Ecohydrology
	Elective MSc European Master in Applied Ecology
	Elective MSc agr. Umweltwissenschaften
Teaching form,	lecture (30 h/90 h)
contact time per week	exercises (30 h/90 h)
class size	25
Workload overall	180h
Contact time	60h
ECTS credit points	6
Preconditions prescribed	
Prerequisites recommended	
Learning outcomes	Students are able to understand theoretical modelling concepts and
	their transformation in model code and application. They are able to run
	sensitivity analysis and to calibrate and validate hydrological models
	and interpret the results. They are capable of defining model scenarios
	and run comparative model exercises
Content	Rainfall-runoff modelling, runoff processes and their implementation into
	hydrological models, overview of state of the art of hydrological models,
	model parameterization, data pre- and postprocessing,
	spatiallydistrubuted models and GIS interface, model application,
	compiler functions, debugging, model modifications
Assessment	Report 100% Guse
Teaching media	
References	K. Beven, 2000: Rainfall – Runoff Modeling – the primer. John Wiley &
	Sons Ltd 2000 SWAT user manuals
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