

Modul Name / Module name	Landscape Systems Analysis	Code: FIT-
Studiengang / Study programme	Forest Information Technology (M.Sc.)	Semester: 1.
Modul Koordinator / Module Coordinator	Prof. Dr. Alfred Schultz (Email: aschultz@fh-egerswalde.de)	
Ziel / Goal	imparting knowledge of concepts, principles and quantitative methods of landscape systems analysis	
Inhalt / Content	notion of systems analysis; landscapes as systems; abiotic, biotic and social system; genesis and development of landscapes; classification and structuring of landscapes; driving forces of landscape development; formal concepts for the description of landscapes: composition and configuration, patterns and processes; scales and hierarchies; application of GIS in landscape system analysis; methods of landscape structure analysis: landscape metrics; applications in management and conservation	
Schlüsselqualifikationen / Soft skills	analytical skills, transdisciplinary thinking, cooperation competency, communication competency	
Weiterführende Module / Continuative modules	all GIS and modelling related subjects	

Status:	elective	Prüfungsform / Examination form:	technical discussion (20 min)
Teilnahmevoraussetzungen / Entry requirements:	knowledge in Ecology, Forest Ecology	Max. Plätze / Max. study places:	25
ECTS-Credits:	3	Dauer / Duration:	continuously
Arbeitsaufwand / Workload:	total: 75 h / semester (2 SWH instruction + 3 SWH self-study)	Lehrsprache / Teaching language:	Englisch
		Lehrform / Teaching form:	lecture (50 %), computer laboratory practice (30 %), other practical exercise (20 %)