
lök229 - Soil Ecology and Soil Landscapes

Module label

Soil Ecology and Soil Landscapes

Modulkürzel

lök229

Credit points

9.0 KP

Workload

270 h

Verwendbarkeit des Moduls

- Master's Programme Landscape Ecology (Master) > Wahlpflichtmodule
- Kalinina, Olga (module responsibility)
- Kalinina, Olga (Module counselling)
- Massmann, Gudrun (Module counselling)
- Kalinina, Olga (Prüfungsberechtigt)

Zuständige Personen

Prerequisites

Skills to be acquired in this module

The objectives of the module:

- to learn the field and laboratory methods of soil investigation in relation to the scientific objectives;
- to analyse the field and laboratory data and to apply modern statistical methods;
- to learn the soil evaluation on the basis of field and laboratory data
- to apply the field and laboratory data for the landscape analyse;
- to analyse ecological processes in the soil-plant-system;
- to analyse the ecological interrelation within an landscape;
- to work on scientific questions on your own;
- to communicate in team to solve a problem.

Module contents

Field exercises: soil investigation in the context of landscape and soil sampling in relation to a focus of study; humus form as indication a dynamics of the ecosystem

Laboratory exercises: Analytical procedures for soil characterization in relation to a focus of study, calculation of laboratory data.

Seminar: Analyse the field and laboratory data; apply modern statistical methods; critical discussion of the field and laboratory data, evaluation of landscape and ecosystem using the field and laboratory data.

Literatureempfehlungen

Scheffer & Schachtschabel (2018): Lehrbuch der Bodenkunde, Spektrum-Verlag.

AD-HOC-AG Bodenkunde (2005): Bodenkundliche Kartieranleitung. Schweizerbart'sche Verlagsbuchhandlung.

Schlichting, Blume, Stahr (1995): Bodenkundliches Praktikum, Blackwell.

NIBIS Kartenserver

see StudIP.

Links

<https://nibis.lbeg.de/cardomap3/#>

Language of instruction

German

Duration (semesters)		2 Semester		
Module frequency		WiSe and SoSe		
Module capacity		8 (		
		2 hrs/w exercise SoSe		
		3 hrs/w exercise WiSe		
		1 hrs/w seminar WiSe		
		)		
Reference text		associated with the following modules:		
		lök120: Geoecological Processes		
		lök280/lök285: Special Vegetation Ecology		
Type of module		Wahlpflicht / Elective		
Module level		MM (Mastermodul / Master module)		
Teaching/Learning method		2 SWS Übung SoSe		
		3 SWS Übung WiSe		
		1 SWS Seminar WiSe		
		Präsenzzeit 84 Stunden		
Previous knowledge		Grundkenntnisse in Vegetationsökologie, Geologie, Chemie, Ökologie, Bodenkunde		
Examination		Prüfungszeiten	Type of examination	
Final exam of module		Veranstaltungsende	HA	
Lehrveranstaltungsform	Comment	SWS	Frequency	Workload of compulsory attendance
Seminar		4	SoSe und WiSe	56
Exercises		2	SoSe und WiSe	28
Präsenzzeit Modul insgesamt				84 h