

**S152 Geoarchaeology and Holocene palaeoecology – reconstruction of natural and human**

Coordinator: Prof. Dr. H.-R. Bork

Teaching Staff: Dr. S. Dreibrodt

Section for SSE: E - Open Studies

Status for SSE: Elective

Section for EM: B7 - Human Development in Landscapes

Status for EM: Elective

Contact time overall: 52 hours

Credit points: 6 ECTS

Term (Semester): 3 Winter

Independent study: 128 hours

Prerequisites: None

Language of tuition: English

Overall workload: 180 hours

Class size: 14

**Teaching Units:****Exercise – Geoarchaeology and Holocene palaeoecology – reconstruction of natural and human processes in**

Teaching Staff: Dr. S. Dreibrodt

Contact time: 26

**Seminar – Geoarchaeology and Holocene palaeoecology – reconstruction of natural and human processes in**

Teaching Staff: Dr. S. Dreibrodt

Contact time: 26

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**Competences the module has been designed to develop:**

Mastery of subject matter: medium

Problem solving competences: strong

Mastery of methods: strong

Communication competences: strong

Application of knowledge and understanding: strong

Learning competences: medium

S152

Geoarchaeology and Holocene palaeoecology – reconstruction of natural and human processes in ecosystems

**Content:**

Students get experienced to carry out geoarchaeological and Holocene palaeoecological studies. They learn to collaborate in groups while analyzing, compiling, combining, discussing and interpreting different available data (in part gained from S 152) within the frame of projects. A major aspect is the comparison of palaeoenvironmental results with recent data. Whereas one focus is lead on the analysis another one is set on the presentation (talk) and publication of the results.

**Learning outcomes:**

Different palaeoenvironmental data (available from S 152 and earlier projects) are compiled, discussed, interpreted, presented and published by the students. Students are organized in project teams.

**References:**

Scientific papers according to the respective project- examples for palaeoclimatic research on lake sediments or historical soil erosion:

Brauer, A., 2004. Annually laminated lake sediments and their palaeoclimatic Relevance. In: Fischer, H., Kumke, T., Lohmann, G., Flöser, G., Miller, H., von Storch, H., Negendank, J.F.W. (Eds.). The climate in historical Times. Springer, pp. 109-127.

Dreibrodt, S., Lubos, C., Terhorst, B., Damm, B., Bork, H.-R., 2010. Historical soil erosion by water in Germany: Scales and archives, chronology, research perspectives. Quaternary International 222, 80-95.

**Recommended previous knowledge:**

Basics in Ecology, consolidation/ continuation of S152

**Teaching media:**

Lab work (microscope), data analysis, interpretation, presentation

**Assessment:**

Project: 100%

**Contact details of module coordinator:**

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