

**S155 Principles in Ecosystem Protection & Management****Coordinator:** Prof. H. Roweck**Teaching Staff:** Prof. Dr. H. Roweck, Prof. Dr. Brendelberger, Prof. Dr. K. Dierßen, Prof. Dr. J. Schrautzer, PD Dr. H. Sommer**Section for SSE:** B3 - Environmental Management**Status for SSE:** Elective**Section for EM:** B8 - Functional Ecology**Status for EM:** Elective**Contact time overall:** 52 hours**Credit points:** 6 ECTS**Term (Semester):** 1 Winter**Independent study:** 128 hours**Prerequisites:** None**Language of tuition:** English**Overall workload:** 180 hours**Class size:** 25**Teaching Units:****Lecture - Conservation of species and environment****Teaching Staff:** PD Dr. H. Sommer, Prof. Dr. K. Dierßen**Contact time:** 26**Lecture - Conservation of Ecosystems****Teaching Staff:** Prof. Dr. H. Roweck, Prof. Dr. Brendelberger, Prof. Dr. K. Dierßen, Prof. Dr. J. Schrautzer, PD Dr. H. Sommer**Contact time:** 26**Teaching Staff:****Contact time:****Teaching Staff:****Contact time:****Competences the module has been designed to develop:****Mastery of subject matter:** strong**Problem solving competences:** strong**Mastery of methods:** strong**Communication competences:** medium**Application of knowledge and understanding:** strong**Learning competences:** strong

S155

Principles in Ecosystem Protection &amp; Management

**Content:**

The focus of this module are basics in Conservation-Biology as well as methods and examples for the most important habitats in the European region.

Topics dealt with in the basic lecture are: Threats and their causes, metapopulation concept, survivability of populations, protected areas (e.g. the European system of protected areas), mapping of habitats and species, indicator - and target species concepts, habitat fragmentation and habitat networks, land reallocation, conservation aspects in landscape planning ...)

In the formal lecture „ecosystem protection“ these topics will be dealt with in relation to specific habitats (forests and woods, heathland, bogs and fens, coastal biotopes, lakes and rivers, urban areas, rural areas).

**Learning outcomes:**

Students are able to understand and develop solutions for relevant problems concerning the protection of species and habitats. They are able to find relevant solutions based on biological as well as formal and legal aspects in this field.

**References:**

Literature will be provided during the lectures.

**Recommended previous knowledge:**

None

**Teaching media:**

PPT

**Assessment:**

Oral examination : 100 %

**Contact details of module coordinator:**

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