

Module No. P 7	Module name Ecosystem Management
Module coordinators Prof. Dr. J. Bauhus Email: juergen.bauhus@waldbau.uni-freiburg.de	
Additional teaching staff Dr. Peter Pechacek	
Syllabus <p>The concept of Ecosystem Management has merged as a new paradigm for the management of natural resources. It is based on the objectives of sustainable use and conservation of natural resources as well as fair and equitable sharing of benefits from ecosystem goods and services. Underpinning this approach are explicit objectives for the management of natural resources. These can be translated into measurable goals, which lend themselves to monitoring. Ecosystem management recognises that ecosystems are complex and interconnected systems, which function on a range of spatial and temporal scales. While management should be based on sound ecological models and understanding aiming at maintaining ecosystem integrity, the approach acknowledges that the current knowledge is limited and the paradigms provisional and likely to change in future. Consequently management approaches are being viewed as hypothesis that require testing through systematic research and monitoring resulting in adaptive management.</p> <p>In this module, students will be introduced to the concepts underpinning Ecosystem Management to enable them to critically evaluate the strengths and limitations of the approach. The module comprises an excursion of ca. 1 week duration to visit a forested landscape, which serves as a case study to examine the Ecosystem Management approach. In the last phase of the module students will have to write a report in which they assess the feasibility to apply the approach to a different setting.</p>	
Learning goals and qualifications Students will: <ul style="list-style-type: none"> • Understand the concepts underpinning ecosystem management • Be able to critical evaluate strengths and limitations of this approach based on practical experience from a case study • Have the capacity to assess the feasibility to apply the ecosystem management approach to a different setting • Further their ability to present research results to an audience, and to make recommendations based on a study tour. 	

Teaching and learning methods	
Lectures, excursions, tutorials, independent learning	
Prerequisites	
none	
Requirements for registration	
Distribution of work load	
<i>Contact hours</i>	80 h (Lectures, pracs, excursion, exam)
<i>Independent learning</i>	45 h (Preparation, reading etc.)
Proposed assessment	
Report	
Link to learning resources	
Preliminary Reading	
http://www.iucn.org/themes/cem/ http://www.esa.org/pao/esaPositions/Papers/ReportOfSBEM.php	
Comments	