

Module No.	Module name
P 4	Statistical Methods and GIS
Module coordinator	
Prof. Dr. Dieter R. Pelz Email: pelz@biom.uni-freiburg.de	
Additional teaching staff	
Prof. Dr. Barbara Koch, Dr. K.P Gross	
Syllabus	
<p>Introduction to statistical methods and GIS:</p> <ul style="list-style-type: none"> - statistical tests, analysis of variance, nonparametric statistics - experimental design and analysis (completely randomized, randomized block, latin squares, split plot, factorial experiments etc.) - regression analysis , simple linear regression, multiple regression, logistic regression <p>Introduction to Geographic Information Systems. Applications with ARC GIS</p>	
Learning goals and qualifications	
<p>At the completion of the course the students should be able to design experiments and analyse data from these experiments with standard statistical analysis programs. Major emphasis is placed on the prerequisites for using the methods and on the interpretation of the results.</p> <p>In GIS students should be able to build a GIS model for specific areas and analyse the results.</p>	

Teaching and learning methods Lectures, computer exercises, e-learning module on statistics
Prerequisites Basic course in statistics, basic introduction to GIS
Requirements for registration <u>none</u>
Distribution of work load <i>Contact hours</i> 80 h (Lectures, pracs, excursion, exam) <i>Student learning</i> 45 h (Preparation, reading etc.)
Proposed assessment Written examination
Link to learning resources
Preliminary Reading
Comments