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| <b>Georg-August-Universität Göttingen</b><br><b>Universität Kassel/Witzenhausen</b><br><b>Module M.SIA.P19M: Experimental techniques in tropical agronomy</b>  | 6 C<br>4 WLH  |
| <b>Learning outcome, core skills:</b><br>Knowledge of the botanical, ecological and agronomic facts of the introduced crop plants and multiplication techniques, scientifically correct interpretation and discussion of results from a greenhouse experiment, limitations and potentials of the interpretation of measuring procedures for the description of physiological state variables in tropical crop plants.  | <b>Workload:</b><br>Attendance time:<br>60 h<br>Self-study time:<br>120 h                 |
| <b>Course: Experimental Techniques in Tropical Agronomy</b> (Lecture, Exercise, Seminar)<br><i>Contents:</i><br>Principles and practice of vegetative and generative propagation techniques in the greenhouse of the division. Introduction to statistical experimental design and analysis of greenhouse experiments. Theory and practice of eco-physiological measurement methods for the water balance and status, as well as gas exchange / photosynthesis rates in tropical crop plants<br><br><b>Literatur</b><br>Kopien von Powerpoint-Präsentationen, ausgewählte Kapitel von Lehrbüchern. | 4 WLH   |
| <b>Examination: Presentation (ca. 30 minutes, 50%) and protocol (max. 20 pages, 50%)</b><br>M.SIA.P19M.Mp: Experimental Techniques in Tropical Agronomy<br><b>Examination requirements:</b><br>Knowledge of botanical, ecological and agronomic facts of the presented crop plants; scientifically correct planning, implementation, evaluation, description and discussion of the results of a greenhouse experiment; limits and possibilities of interpretation of measurement methods for describing the physiological state variables of tropical crop plants.                                 | 6 C   |
| <b>Admission requirements:</b><br>M.SIA.P12  | <b>Recommended previous knowledge:</b><br>Basic knowledge (B.Sc. level) of plant sciences |
| <b>Language:</b><br>English  | <b>Person responsible for module:</b><br>Dr. Ronald Franz Kühne                           |
| <b>Course frequency:</b><br>each summer semester; Göttingen  | <b>Duration:</b><br>1 semester[s]   |
| <b>Number of repeat examinations permitted:</b><br>twice   | <b>Recommended semester:</b>  |
| <b>Maximum number of students:</b><br>15   |   |
| <b>Additional notes and regulations:</b><br><b>Literature:</b>   |   |

Copies of PowerPoint presentations, selected chapters from textbooks