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| Georg-August-Universität Göttingen | | 6 C 4 WLH |
| Module M.iPAB.0002: Breeding schemes and programs in plant and animal breeding | | |
| Learning outcome, core skills: Students will learn the basic elements and structures of breeding programs in plant and animal breeding. They understand the relationship between biological characteristics of the crop or livestock species and the specific design of the breeding program. The students know the four breeding categories and design possibilities of breeding programs for self-pollination, cross-pollination and vegetative and clonally propagated crops. They learn breeding programs for major crops and livestock species. | | Workload: Attendance time: 56 h Self-study time: 124 h |
| Course: M.iPAB.0002.LV Breeding schemes and programs in plant and animal breeding (Lecture, Excursion) <i>Contents:</i> Design of breeding programs. Basic elements of breeding programs: Breeding objectives and breeding planning, performance testing, selection and mate selection, use of biotechnologies, transfer of breeding progress in the production level, monitoring of the breeding progress. Breeding program structures in the most important crop species: cereals, corn, rape, sugar beet, specialty crops. Breeding program structures in the main livestock species: dairy cattle, pigs, poultry, beef cattle, small ruminants. Breeding program structures in forest genetics. | | 4 WLH |
| Examination: Written exam (45 minutes, 50%) and an Essay (45 minutes, 50%) M.iPAB.0002.Mp: Breeding schemes and programs in plant and animal breeding Examination requirements: Profound knowledge of basic breeding program structures and elements of breeding programs and their concrete implementation to various crops and livestock. Elaboration of the breeding planning for a livestock or crop species. | | 6 C |
| Admission requirements: none | Recommended previous knowledge: none | |
| Language: English | Person responsible for module: Dr. Birgit Jutta Zumbach | |
| Course frequency: each summer semester | Duration: 1 semester[s] | |
| Number of repeat examinations permitted: twice | Recommended semester: Master: 1 | |
| Maximum number of students: 30 | | |
| Additional notes and regulations: Mandatory excursions to practical plant breeding and animal breeding programs. | | |