Georg-August-Universität Göttingen **Module M.iPAB.0006: Breeding informatics**	6 C 4 WLH

Learning outcome, core skills: Students acquire their knowledge of informatics methods to evaluate large datasets for breeding issues.	**Workload:** Attendance time: 56 h Self-study time: 124 h

Course: M.iPAB.0006.C **Breeding informatics** (Lecture, Exercise) *Contents*: • Bascics of Linux operating system • Basic data structures • Programming in R • Regular expressions • Design and implementation of pipelines for data analysis • Shell scripts on Linux (gawk, sed) • Relation of genotype - phenotype • Basic concepts of bioinformatics	4 WLH
Examination: Written examination (90 minutes) M.iPAB.0006.Mp: Breeding informatics **Examination requirements:** Profound knowledge of informatics methods to evaluate large datasets for breeding issues.	6 C

Admission requirements: none	**Recommended previous knowledge:** Basic knowledge of molecular genetics, statistics, programing
Language: English	**Person responsible for module:** Prof. Dr. Armin Schmitt
Course frequency: each summer semester	**Duration:** 1 semester[s]
Number of repeat examinations permitted: twice	**Recommended semester:**
Maximum number of students: 20	