Georg-August-Universität Göttingen	6 C
Master Program Crop Protection	4 SWS
Module M.Cp.0025: Analytical Techniques for Foods and	
Agricultural Research	

<b>Contents</b> : The module will include various topics related to chemical analysis		Work Load 180 h
methods in agricultural sciences. The analysis of plant metabolites (such as carbohydrates, amino acids, orga phytoalexins, glucosinolates, and volatiles) will be disc mycotoxins, fungal secondary metabolites, and pestic module will introduce the fundamental analytical che sample preparation, separation techniques, detection quantification of metabolites using state-of-the-art ch spectrometric methods	primary and secondary anic acids, phytohormones, cussed. Moreover, the analysis of ide residues will be covered. The mistry methods, including methods, characterization, and promatographic and mass	Attendance time: 70 h Self-study time: 110 h
<b>Objectives</b> : This module aims to provide students wi understanding of chemical analysis techniques emplo through a combination of practical experiments and le analysis of major chemical groups in plants, fungi, and		
<b>Exam:</b> Oral exam (30 min, 70%), Student presentation with discussion (ca. 20 min presentation + ca. 10 min discussion, 30%		
<b>Examination prerequisites</b> Regular participation in the block cours		
Language: English	Coordinator: Dr. Mohammad Al	hussein
Position in academic year: winter semester	Duration: one semester	
Maximum options of exam repetition: twice	Recommended semester:	
Maximum number of participants: 16	Type of Module: elective	