

Module	Analytical Methods	
Faculty	Agricultural Sciences and Landscape Architecture (A&L)	
Module ID	44054247	
Study Programme	Agricultural and Food Business (M.Sc.)	
Level	Master	
Course content	<p>Chemical, physical and/ or microbiological analysis processes for the investigation of e.g. food, feedstuff, plant, soil or water samples:</p> <ul style="list-style-type: none"> - Sampling - Storage of samples - Preparation - Extraction and digestion processes - Final determination methods for chemical, biochemical or microbiological parameters (e.g. minerals, carbohydrates, vitamins, antioxidant capacity, pesticides arrears, heavy metal, coliform bacteria, yeasts and mildew). <p>The selection of examined parameters and applied analysis methods will be determined in reference to the subject on which the students work in the following projects and the master thesis.</p>	
Course description	<p><u>Broadening of knowledge</u> Students, who studied this module successfully, are aware of different chemical, physical and / or microbiological analysis methods, which are used for the examination of samples out of the agrarian and food sector.</p> <p><u>Reinforcement of knowledge</u> Students, who studied this module successfully, have a detailed knowledge about methods for selected analysis processes.</p> <p><u>Skill – instrumental expertise</u> Students, who studied this module successfully, are able to apply analysis processes on defined questions and to interpret results critically.</p>	
Teaching/ study methods	Seminar and laboratory practicals	
Credits	5	
Teaching / study econcepts	Hours	Workload
	25	Laboratory
	5	Seminar
	40	Group work
	30	Preparation / postprocessing
	30	Studying literature
20	Exam preparation	
Responsible professor	Daum, Diemo	
Last update	08.07.2012	