

Module title		Abbreviation
Toxicology of Food		o8-LMC-LMTox-161-mo1
Module coordinator		Module offered by
holder of the Chair of Food Chemistry		Institute of Pharmacy and Food Chemistry
ECTS	Method of grading	Only after succ. compl. of module(s)
9	numerical grade	--
Duration	Module level	Other prerequisites
2 semester	graduate	--
Contents		
<p>Harmful effects of natural and synthetic chemicals, toxicodynamics (receptor theory, dose-response relationships); toxicokinetics (absorption, distribution, biotransformation, elimination); classification of toxicants and their biological effects; toxicology and animal testing; methods for toxicity testing (acute, subacute, subchronic, chronic, carcinogenic, mutagenic and teratogenic toxicity tests); principles of epidemiological studies; risk assessment and definition of exposure limits and guidelines.</p>		
Intended learning outcomes		
<p>Students are familiar with the toxicokinetics and modes of toxic action of relevant natural and synthetic chemicals as well as with methods for toxicity testing. They have learned the principles of epidemiological studies. They know the steps involved in a risk assessment and in the definition of exposure limits and guidelines. Students are able to independently select an appropriate test for the solution of a given food toxicological question and are able to perform that test.</p>		
Courses (type, number of weekly contact hours, language — if other than German)		
V (2) + V (2) + P (2)		
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)		
<p>Assessment: a) written examination (60 to 120 minutes) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups of 2 candidates (approx. 30 minutes total) and lab course assessment components: Vortestate and Nachtestate (pre and post-experiment exams, approx. 15 minutes), assessment and documentation of practical assignments (approx. 10 pages) and written report (approx. 5 to 10 pages) Language of assessment: German or English</p>		
Allocation of places		
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Additional information		
<p>Pursuant to Section 18 Subsection 2 Sentence 1 Verordnung über die Ausbildung und Prüfung der Staatlich geprüften Lebensmittelchemikerinnen und Lebensmittelchemiker (Regulation on the training and examination of state-certified food chemists, APOLmCh) in conjunction with No. I 5. of Annex 3 of APOLmCh and Section 18 Subsection 3 Sentence 1 APOLmCh. Pursuant to Section 2 Subsection 2 Sentence 2 Verordnung über die Ausbildung und Prüfung der Staatlich geprüften Lebensmittelchemikerinnen und Lebensmittelchemiker (Regulation on the training and examination of state-certified food chemists, APOLmCh) in conjunction with No. II 1. Letter d and 2. Letter g of Annex 1 of APOLmCh.</p>		
Workload		
270 h		
Teaching cycle		
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Referred to in LPO I (examination regulations for teaching-degree programmes)		
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Module appears in

Master's degree (1 major) Food Chemistry (2016)