### Module title

**Microbiology of Food and Hygiene for Food Chemistry Students**

### Abbreviation

03-LMC-HYG-152-m01

### Module coordinator

Institute of Hygiene and Microbiology

### Module offered by

Faculty of Medicine

### ECTS

5

### Method of grading

Numerical grade

### Only after succ. compl. of module(s)

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### Duration

1 semester

### Module level

Undergraduate

### Other prerequisites

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### Contents

The students will gain knowledge on food-related topics of hygiene and microbiology. This includes relevant, food-contaminating microorganisms and the infections/diseases they provoke; antimicrobial drugs/substances; hygiene management, food decay.

### Intended learning outcomes

Students gain knowledge on food microbiology and hygiene: fundamentals of microbial systematics, morphology, cytology and physiology; knowledge on the role of pathogens (microorganisms, toxin producers, viruses, prions, parasites) for food chemistry and food technology (decay, intoxications, analytical microbiology, biotechnology); knowledge on the diagnosis and cultivation of microorganisms; knowledge on microbial inactivation (disinfection, sterilisation); fundamentals of the pathogenesis of important human pathogens and clinical consequences of microbial infection; fundamentals of medically relevant antiinfectives and the development of drug resistances.

### Courses

- **V (2) + P (2)**

### Method of 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 (groups of 2, approx. 30 minutes total)

### Allocation of places

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### Additional information

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 2. Letter f) and No. II 1. Letter b) of Annex 1 of APOLmCh and No. 4 of Annex 3 of APOLmCh.

### Referred to in LPO I

(examination regulations for teaching-degree programmes)

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### Module appears in

- Bachelor’ degree (1 major) Food Chemistry (2015)
- Bachelor’ degree (1 major) Food Chemistry (2016)
- Bachelor’ degree (1 major) Food Chemistry (2019)