



## Course catalogue

### NUT-IIIE-ZA03 Food contaminants

Programme	Nutrition
Level	Master's programme
Academic year	I year
Semester	Autumn Semester
ECTS credits	8 credits
Lecturers	Prof. d-r Gorica Pavlovska, PhD
Language	Macedonian
Objective	Students will advance their knowledge of the type of toxic substances, sources of contamination and the way of influencing toxic substances in food for human health.
Content	Types of toxic substances, their impact on human health and prevention. Contaminants from biological sources (from plant origin, from animal origin, microbial toxins, mycotoxins. Contaminants due to environmental pollution (halogenated hydrocarbons, heavy metals, radioactive isotopes, contaminants from agricultural production (pesticides, GMOs, veterinary drugs). Contaminants formed during food preparation (acrylamide, furan, trans fatty acids, oxidation products of fats and oils, heterocyclic aromatic amines, polycyclic aromatic hydrocarbons). Contaminants that is added to food (preservatives, artificial sweeteners, artificial colors). Contaminants from packaging (phthalates, bisphenol, semicarbazides).
Learning materials	Reading from the primary literature are referenced in class and posted to the course website.