



Course: **Environmental Health**

Objectives: The basic objective of the course is to enable student to understand the impact of environmental factors on health and correct interpretation of the existing relationship between health and the environment. Student will get knowledge about the environmental health threats, health effects resulting from exposure to harmful environmental factors, methods of effective reduction of exposure to environmental health hazards. Student will be able to apply analytical techniques in order to analyze the heavy metals concentration in biological material (e.g. food, soil, water and air samples).

Description:

- History of Environmental Health.
- European Union actions in the field of environmental health.
- International commitments in the field of environmental health.
- Routes of exposure to environmental risk factors.
- Population groups of particular health risk of exposure to environmental health threats.
- Examples of health risk factors: heavy metals, polycyclic aromatic hydrocarbons (PAHs), dioxins and furans (PCDD/Fs), polychlorinated biphenyls (PCBs) etc.
- Health, social and economic consequences of the impact of air pollution on the human body.
- Analysis of the latest reports of WHO, EEA, UNICEF, US EPA, etc. in the field of environmental health.
- Determination of the content of heavy metals in the analytical samples in order to health risk assessment.

Literature: The latest reports of WHO, EEA, UNICEF, US EPA, etc. in the field of environmental health.

Friis R. Essentials of Environmental Health (Essential Public Health), Inc., 2018.

Teaching: case studies/conversations/practice/laboratory
 180 hours

Examination: combined exam – practical & oral/test

ECTS: 6

Person responsible: Joanna Domagalska, PhD
 Assistant Professor, Department of Environmental Health
 School of Public Health

Medical University of Silesia
Katowice, Poland