

Monitoring and environmental protection

30L, 30T, 7ECTS

PhD Agnieszka Popena

Available in semester: S-spring only, A-autumn only, Y-both	Language taught	Subject / Component	ISCED 2013-F code	ISCED 2013-F Field of study	Level 1 - BSc (EQF 6) 2 - MSc (EQF 7) 3 - PhD (EQF 8)	ECTS	Lecture (hours)	Exercises (hours)	Laboratory (hours)	Seminar (hours)	e-Learning (hours)	Projects (hours)	Examination: EO - exam oral, EW - exam written, A - assignment
S	EN	Environmental monitoring and protection	0521	Environmental sciences	1	7	30		30				A

Lectures

Form of classes - lectures	Hours
Programme, structure and fundamentals of the State Environmental Monitoring Programme	4
Definition, objectives, tasks of monitoring in environmental subsystems	6
Current legislations with respect to environmental monitoring	2
The directions of studies in the environmental biomonitoring	2
Colloquium	1
Origin and types of pollutants in selected environmental elements	4
Biological processes applied in the treatment of wastewater	2
The removal of organic and biogenic pollutants from wastewater	2
Protection of polluted sediments	2
Protection of polluted soils	2
Protection of polluted air	2
Colloquium	1

Tutorials

Form of classes – tutorials	Hours
Computer laboratory safety training	1
Introduction to the rules of existing selected data bases and networks	2
Analysis of monitoring data coming from the selected monitoring station	7
Interpretation of results of the pollution state	3
Preparation of laboratory work report	2
Examples of environmental protection technologies	8
Group discussion on a selected topic	2
Presentation on a selected topic	4
Course summary	1