

CODE: ECO 2.1	COURSE TITLE: BIOLOGICAL MONITORING			ECTS: 3
COORDINATOR: Krzysztof Szoszkiewicz		DEPARTMENT: Ecology And Environmental Protection		
COURSE CATEGORY				
Open				
VOLUME: 30 H			PERSONAL WORK: 20 H	
LECTURE: 15 H	PRACTICALS (LAB) : 5 H	PLACEMENT: (H)	PROJECT: 10 H	OTHER MODALITIES: (H)
EVALUATION:		OTHER MODALITIES:		LECTURER(S)
EVALUATION MODALITIES	X			Prof. Krzysztof Szoszkiewicz Dr. Klaudia Borowiak Dr. Daniel Gebler MSc. Joanna Chmist
ORAL INDIVIDUAL REPORT				
WRITTEN INDIVIDUAL REPORT				
FINAL ORAL EXAM				
FINAL WRITTEN EXAM	X			
COMMENTS OF EVALUATION:		TEACHING METHODS: Lectures, tutorials, field trip		
SEMESTER: SUMMER / WINTER		LANGUAGE: ENGLISH		
PERIOD: 15 WEEKS		YEAR OF STUDY: OPEN		
OBJECTIVES				
The main objective is to train students in biological methods implemented into environmental monitoring. Air pollution, soil habitat and water degradation is considered. Variety of methods implement in the national monitoring are included as well as a variety of European methods are considered.				
CONTENTS				
Ecological bases bioindication. Limiting factors and zones of tolerance. Types of bioindicators. Biomonitoring of air pollutants. Geneva convention and its bodies. Lichens as indicators of air pollution. Bioindication of forest degradation. Phytosociological approach and the indicative value of plant communities. Plant communities as habitat indicators in the Habitats Directive. Indicative values of plant species. Bioindication of aquatic ecosystems. Biological methods used in assessing the ecological status of surface water by the Water Framework Directive requirements.				
GROUP SIZE: 15		PRE-REQUIRES: Basic knowledge in biology		