

CODE: ECO 3.3	COURSE TITLE: APPLIED ECOLOGY			ECTS: 4
COORDINATOR: Krzysztof Szoszkiewicz		DEPARTMENT: Ecology and Environmental Protection		
COURSE CATEGORY				
Open				
VOLUME: 45 H			PERSONAL WORK: 30 H	
LECTURE: 15 H	PRACTICALS (LAB) : 15 H	PLACEMENT: (H)	PROJECT: 15 H	OTHER MODALITIES: (H)
EVALUATION:		OTHER MODALITIES:		LECTURER(S)
EVALUATION MODALITIES	X			Prof. Krzysztof Szoszkiewicz 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		LANGUAGE: ENGLISH		
PERIOD: 15 WEEKS		YEAR OF STUDY: OPEN		
OBJECTIVES				
The overall aim of this course is to analyse links between principles of ecological theory and assessment and management of terrestrial and aquatic ecosystems. Ecological applications at individual, population, community and ecosystem levels will be studied. Special emphasis on implementation of major EU regulations.				
CONTENTS				
Habitat assessment, niche theory, bioindication. Population - structure, processes, managing populations, species conservation. Community - parameters, biodiversity and its measurement, biodiversity conservation (including EU Habitat Directive approach), succession, biotic interactions, managing pests. Ecosystems - trophic levels and food webs, bioaccumulation, energy flow and energy budgets or ecosystems, productivity. Freshwater ecosystems - structure and functioning, eutrophication, biomanipulation, ecological assessment and ecological quality status of freshwaters (for the purpose of EU Water Framework Directive). Terrestrial ecosystems - agricultural systems, farming and environment.				
GROUP SIZE: 15		PRE-REQUISITES: Basic knowledge in biology		