STUDY MODULE DESCRIPTION FORM								
	f the module/subject ronment Manage	ement	Code 1011102321011120213					
Field of			Profile of study	Year /Semester				
Man	agement - Full-ti	me studies - Second-cycle	(general academic, practical) (brak)	1/2				
	path/specialty	,	Subject offered in:	Course (compulsory, elective)				
	Quality Sys	stems and Ergonomics	Polish	elective				
Cycle of	f study:		Form of study (full-time,part-time)					
	Second-c	ycle studies	full-time					
No. of h	ours			No. of credits				
Lectur	e: 15 Classes	s: - Laboratory: -	Project/seminars:	- 2				
Status o	of the course in the study	(university-wide, from another	field)					
		(brak)		(brak)				
Educati	on areas and fields of sci	ence and art		ECTS distribution (number and %)				
socia	I sciences			2 100%				
	Economics			2 100%				
Resp	onsible for subj	ect / lecturer:		·				
dr ir	iż. Bogna Mateja							
	ail: bogna.mateja@put	.poznan.pl						
	+48 61 665 3438 ulty of Engineering Ma	anagement						
	Strzelecka 11 60-965 F	5						
Prere	quisites in term	s of knowledge, skills and	social competencies:					
1	Knowledge	Student defines and characterizes basic terms from the area of natural science that relate to the functioning of the natural environment; basic technologies in production processes, chosen terms from the area of management science, ideas and objectives of ergonomics						
2	Skills	Student is able to interpret chang environment, knows how to apply between them, as well as he use observed phenomena	methods of studying phenom	nena and dependencies				
3	Social competencies	Student is aware of the role of proto participate in the process of sh						
Assu	•	ectives of the course:						
Assumptions and objectives of the course: The course is aimed at giving knowledge on relations between the economy and the natural environment, as well as about social and economical results of the irrational management of natural resources. The student obtains the skill of determining objectives and preparing programs for environmental protection to be applied in enterprises. Study outcomes and reference to the educational results for a field of study								
Know	/ledge:							
1. Stuc	lent should know abou	ut the role of man in actions for prol late to the formation of work condit						
protect	ion - [K2A_W06]	plains legal norms from the range	Ū .					
of man	agement normalizatio	n, he understands methods of their						
Skills		and courses of processes of access	min and logal sharement and	lated to correlations between				
	•	and courses of processes of econo ment, he presents scientific hypoth	•					
proces		ge from the range of ecology and c on the contact area of these discipli _U02]	•	• • •				
3. Stuc	3. Student has the skill of using the obtained knowledge from the described range, widened with the critical analysis of efficiency and usability of the applied knowledge - [K2A_U06]							
4. Stuc	4. Student has skills of understanding and analyzing social phenomena that is widened with a skill of deep theoretical assessment of determined phenomena in chosen areas and with use of the scientific method - [K2A_U08]							
	al competencies:							

1. Student is aware of the importance of the professional behavior and of maintaining principles of professional ethics and respect of the diversity of opinions and cultures - [K2A\_K04]

2. Student knows how to present own contribution in the preparation of social projects and administrate ventures resulting from these projects - [K2A\_K05]

3. Student is aware of the interdisciplinary character of the knowledge from the range of ecology, ergonomics and he has the skill to solve composite organizational problems and he creates interdisciplinary teams - [K2A\_K06]

### Assessment methods of study outcomes

Forming assessment:

a) Classes: on basis of the current progress of work in the realization of the task;

b) Lectures: on basis of answers to questions concerning the discussed material;

Final assessment

a) Classes: on basis of public presentation of the realized task;

b) Lectures: on basis of a written colloquium from the range of lectures (in form of 3 responses to open questions).

# **Course description**

#### Lectures

- 1. Evolution of attempts at the environmental management
- 2. Anthropogenic environment as an object of management
- 3. The essence of the process of environmental management
- 4. Term is the environmental protection and in environmental management
- 5. Systems of environmental management
- 5.1. The development, the purpose, tasks and the structure of norms of ISO 14000 series
- 5.2. Designing and implementing norms of ISO series in the organization
- 6. Eco-indicators in the products design

Classes

- 1. Identification of parameters of the technology and conditions of the enterprise
- 2. Environmental aspects of the activity of the company
- 3. The mission and the environmental vision of the enterprise
- 4. The environmental policy of the enterprise and its strategic objectives
- 5. Specific objectives and tasks
- 6. The program of the environmental management and conditions of its implementation

### Basic bibliography:

1. Jabłoński J., Janik S., Mateja B., Inżynieria ochrony środowiska, WPP, Poznań 2011

2. Jabłoński J., Zarządzanie środowiskiem, WPP, Poznań 2011

3. Jabłoński J., Zarządzanie środowiskowe jako warunek ekologizacji przedsiębiorstwa. Próba modelu teoretycznego, WPP, Poznań 2001

4. Mateja B., Ekologia. Wybrane zagadnienia, WPP, Poznań 2011

5. Zarządzanie środowiskiem. Poskrobko B., PWE, Warszawa 1998

# Additional bibliography:

1. PN - EN ISO 14001:2005, Systemy Zarządzania Środowiskowego

2. Ustawa z dnia 27 kwietnia 2001., Prawo ochrony środowiska, Dz. U. 2001, nr 62, poz. 627

# Result of average student's workload

Activity	Time (working hours)
1. Lectures	15
2. Classes	15
3. Consultations	10
4. Preparation of the presentation	10
5. Preparation for the colloquium	6
6. Colloquium	2
7. Discussing conclusions of the colloquium	2

Source of workload	hours	ECTS
Total workload	60	2
Contact hours	44	2
Practical activities	15	1