		STUDY MODULE DE	SCRIPTION FORM				
	f the module/subject ronment Manage	ement	Code 1011105231011100213				
Field of	study		Profile of study	Year /Semester			
Engineering Management - Part-time studies -			(general academic, practical) (brak)	2/3			
Elective path/specialty Quality Systems and Ergonomics			Subject offered in: Polish	Course (compulsory, elective) elective			
Cycle of		5	Form of study (full-time,part-time)				
	Second-c	ycle studies	part-time				
No. of h	ours			No. of credits			
Lectur	e: 10 Classes	s: 10 Laboratory: -	Project/seminars:	6			
Status of the course in the study program (Basic, major, other)			(university-wide, from another fiel				
F 1 1		(brak)	(brak)				
Education	on areas and fields of sci	ence and art		ECTS distribution (number and %)			
techr	ical sciences			6 100%			
	Technical scie	ences		6 100%			
Resn	onsible for subj	ect / lecturer:					
•	-						
	iż. Bogna Mateja ili: bogna.mateja@put	poznan.pl					
	+48 61 665 3438						
	ulty of Engineering Ma Strzelecka 11 60-965 F	5					
Prere	quisites in term	s of knowledge, skills and	i social competencies:				
1	Knowledge	the functioning of the natural env	izes basic terms from the area of natural science that relate to environment; basic technologies in production processes, chosen ement 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 phenomer	na and dependencies			
3	Social competencies	Student is aware of the role of proto participate in the process of sh					
Assu	-	ectives of the course:					
The co social a	urse is aimed at giving	g knowledge on relations between s of the irrational management of n	atural resources. The student of				
objecti		grams for environmental protection mes and reference to the (field of study			
Know	/ledge:						
	-	ut the role of man in actions for pro	tecting the natural environment	and the humanization of the			
proces		late to the formation of work condit					
		xplains legal norms from the range n, he understands methods of their					
Skills	*		Influence on organization functi	oning - [KZA_W13]			
1. Stuc	lent interprets causes	and courses of processes of econo ment, he presents scientific hypoth					
2. Stuc proces	lent uses the knowled	ge from the range of ecology and con the contact area of these discipli	organizational management for d	escribing and analyzing			
	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]						
assess	ment of determined p	rstanding and analyzing social phe henomena in chosen areas and wit					
Socia	I 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	10
2. Classes	10
3. Consultations	20
4. Preparation of the presentation	40
5. Preparation for the colloquium	20
6. Colloquium	2
7. Discussing conclusions of the colloquium	2

Source of workload	hours	ECTS
Total workload	104	6
Contact hours	44	3
Practical activities	10	1