		STUDY MODULE DE	ESCRIPTION FORM					
	f the module/subject ronment Manage	ement	Code 1011102331011120213					
Field of			Profile of study	Year /Semester				
Engineering Management - Full-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	full-time					
No. of h	ours			No. of credits				
Lectur	e: 15 Classes	s: 15 Laboratory: -	Project/seminars:	6				
Status of the course in the study program (Basic, major, other)			(university-wide, from another field					
Educati		(brak)	(brak)					
Education	on areas and fields of sci	ence and art		ECTS distribution (number and %)				
techr	nical sciences			6 100%				
	Technical scie	ences		6 100%				
Resp	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	0						
			l aggial compatancias					
Prere	quisites in term	s of knowledge, skills and	a social competencies:					
1	Knowledge	the functioning of the natural env	nd characterizes basic terms from the area of natural science that relate to the natural environment; basic technologies in production processes, chosen a of management science, ideas and objectives of ergonomics					
2	Skills	Student is able to interpret changes environment, knows how to apply between them, as well as he use observed phenomena	y methods of studying phenomen	a and dependencies				
3	Social competencies	Student is aware of the role of pr to participate in the process of sh		5				
Assu	-	ectives of the course:						
The co	urse is aimed at giving	g knowledge on relations between s of the irrational management of r						
objecti		grams for environmental protection		field of study				
14	-	mes and reference to the	educational results for a	field of study				
	/ledge:							
proces		It the role of man in actions for pro late to the formation of work condit						
2. Stuc	lent recognizes and ex	plains legal norms from the range						
of man Skills	*	n, he understands methods of thei	r influence on organization functi	oning - [K2A_W13]				
		and courses of processes of economent, he presents scientific hypotl						
2. Stuc proces	lent uses the knowled	ge from the range of ecology and on the contact area of these discipl	organizational management for d	escribing and analyzing				
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]							
 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] 								
Socia	Social 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	40
4. Preparation of the presentation	50
5. Preparation for the colloquium	20
6. Colloquium	2
7. Discussing conclusions of the colloquium	2

Source of workload	hours	ECTS
Total workload	144	6
Contact hours	74	4
Practical activities	65	2