		STUDY MODULE DE	SCRIPTION FORM			
	f the module/subject ronment Manage	ement	Code 1011105311011120213			
Field of study			Profile of study	Year /Semester		
Engineering Management - Part-time studies -			(general academic, practical) (brak)	1/1		
Elective path/specialty Production and Operations Management			Subject offered in: Polish	Course (compulsory, elective)		
Cycle of			Form of study (full-time,part-time)	elective		
	Second-c	ycle studies	part-time			
No. of h	ours			No. of credits		
Lecture: 12 Classes: - Laboratory: -			Project/seminars:	- 2		
Status of the course in the study program (Basic, major, other)			(university-wide, from another fi	eld)		
		(brak)	(brak)			
Education	on areas and fields of sci	ence and art		ECTS distribution (number and %)		
technical sciences				2 100%		
Technical sciences				2 100%		
Resp	onsible for subj	ect / lecturer:				
-	iż. Bogna Mateja					
	ail: bogna.mateja@put	.poznan.pl				
	tel. +48 61 665 3438					
	ulty of Engineering Ma Strzelecka 11 60-965 F	5				
		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 change environment, knows how to apply between them, as well as he uses observed phenomena	methods of studying phenome	ena and dependencies		
3	Social competencies	Student is aware of the role of pro to participate in the process of sha				
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 outco	mes and reference to the e	educational results for	a field of study		
Know	/ledge:					
proces		ut the role of man in actions for prote late to the formation of work condition				
•		plains legal norms from the range of	of environmental protection an	d used programs and systems		
	agement normalizatio	n, he understands methods of their				
	•	and courses of processes of econo ment, he presents scientific hypoth	•			
proces		ge from the range of ecology and o on the contact area of these disciplin _U02]				
	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 pher henomena in chosen areas and with				
Socia	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
- 6. Jabłoński J., Janik S., Mateja B., Inżynieria ochrony środowiska, WPP, Poznań 2011
- 7. Jabłoński J., Zarządzanie środowiskiem, WPP, Poznań 2011
- 8. Jabłoński J., Zarządzanie środowiskowe jako warunek ekologizacji przedsiębiorstwa. Próba modelu teoretycznego, WPP, Poznań 2001

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

10. 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
- 3. PN EN ISO 14001:2005, Systemy Zarządzania Środowiskowego

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

Result of average student's workload

Activity

1. Lectures		12		
2. Consultations		10		
3. Preparation for the colloquium		10		
4. Colloquium	2			
5. Discussing conclusions of the colloquium	2			
6.	0			
Student's wo	Student's workload			
Source of workload	hours	ECTS		
Total workload	36	2		
Contact hours	26	1		
Practical activities	0	0		