		STUDY MODULE D	ESCRIPTION FORM				
Name of Envi	f the module/subject ronment Manage	ement	Code 1011102231011100213				
Field of Engi	study	ment - Full-time studies -	Profile of study (general academic, practical)	Year /Semester			
Elective path/specialty Quality Systems and Ergonomics			Subject offered in: Polish	Course (compulsory, elective) elective			
Cycle of	study:	6	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 c	of the course in the study	(university-wide, from another f	field)				
		(brak)	(brak)				
Educatio	on areas and fields of sci	ence and art		ECTS distribution (number and %)			
techr	nical sciences			6 100%			
	Technical scie	ences		6 100%			
Responsible for subject / lecturer:							
email: bogna.mateja@put.poznan.pl tel. +48 61 665 3438 Faculty of Engineering Management ul. Strzelecka 11 60-965 Poznań							
Prere	quisites in term	s of knowledge, skills and	d 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 changes environment, knows how to appl between them, as well as he use observed phenomena	interpret changes occurring in the natural environment and work vs how to apply methods of studying phenomena and dependencies well as he uses logical reasoning in purpose of correlating and evaluating ena				
3	Social competencies	Student is aware of the role of put to participate in the process of sl	roblems related with the natura naping wok conditions and the	al environment and he is willing natural environment			
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.							
Know	lodgo:			a now of study			
1. Stud proces	lent should know abou s of work, which all re ion - [K2A_W06]	ut the role of man in actions for pro late to the formation of work condi	tecting the natural environmen tions and organization of work,	nt and the humanization of the as well as ecosystems			
2. Stud	lent recognizes and ex	xplains legal norms from the range	of environmental protection a	nd used programs and systems			
Skills							
1. Stud busine	lent interprets causes ss and natural enviror	and courses of processes of econ ment, he presents scientific hypot	omic and legal phenomena rel heses and verifies them - [K2	ated to correlations between A_U02]			
2. Student uses the knowledge from the range of ecology and organizational management for describing and analyzing processes and phenomena on the contact area of these disciplines of science and he forms own opinions and chooses methods of analyses - [K2A_U02]							
3. Stud efficien	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. 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

Additional bibliography:

1. PN - EN ISO 14001:2015, Systemy Zarządzania Środowiskowego

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
Student's workload	

Source of workload	hours	ECTS
Total workload	60	6
Contact hours	44	3
Practical activities	15	3