| | | STUDY MODULE DE | SCRIPTION FORM | | | | | |
|--|---|---|---|----------------------------------|--|--|--|--|
| | f the module/subject ronment Manage | ement | Code 1011102311011120213 | | | | | |
| Field of | study | | Profile of study | Year /Semester | | | | |
| Engi | neering Manage | ment - Full-time studies - | (general academic, practical) (brak) | 1/1 | | | | |
| Elective | path/specialty | orise Management | Subject offered in: Polish | Course (compulsory, elective) | | | | |
| Cycle of | • | | 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: | 2 | | | | |
| Status of the course in the study program (Basic, major, other) | | | (university-wide, from another field | | | | | |
| | | (brak) | (brak) | | | | | |
| Education | on areas and fields of sci | ence and art | | ECTS distribution (number and %) | | | | |
| techr | nical sciences | | | 2 100% | | | | |
| | Technical scie | ences | | 2 100% | | | | |
| | | | | | | | | |
| Resn | onsible for subj | ect / lecturer: | | | | | | |
| • | iż. Bogna Mateja | | | | | | | |
| | il: bogna.mateja@put | .poznan.pl | | | | | | |
| | +48 61 665 3438 | · · · · | | | | | | |
| | ulty of Engineering Ma Strzelecka 11 60-965 F | 0 | | | | | | |
| | | s of knowledge, skills and | I social competencies: | | | | | |
| 1 | Knowledge | the functioning of the natural envi | tudent defines and characterizes basic terms from the area of natural science that relate to e functioning of the natural environment; basic technologies in production processes, chosen rms 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 uses observed phenomena | methods of studying phenomer | a and dependencies | | | | |
| 3 | Social competencies | Student is aware of the role of pro to 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 outco | mes and reference to the | educational results for a | field of study | | | | |
| Know | /ledge: | | | | | | | |
| proces | | It the role of man in actions for prot ate to the formation of work conditi | | | | | | |
| • | . – . | plains legal norms from the range | of environmental protection and | used programs and systems | | | | |
| of man | * | n, he understands methods of their | r influence on organization functi | oning - [K2A_W13] | | | | |
| | | and courses of processes of economent, he presents scientific hypoth | | | | | | |
| 2. Stuc proces | lent uses the knowled | ge from the range of ecology and o on the contact area of these discipli | 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] | | | | | | | |
| 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] | | | | | | | |
| 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 | 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 |