SYLLABUS

Name:	**Management of post-industrial and degraded areas**
Name in Polish:	**Zarządzanie terenami poprzemysłowymi i zdegradowanymi**
Name in English:	**Management of post-industrial and degraded areas**

Information on course:

Course offered by department:	Faculty of Organisation and Management
Course for department:	Silesian University of Technology
Study level and form:	Bachelor's degree, Full-time
Term:	summer semester 2023/2024
Coordinator of course edition:	Dr hab. inż. Jan Skowronek

Default type of course examination report:

pass

Language:

English

Course homepage:

https://platforma.polsl.pl/roz/

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Short description:

The aim of the subject is to provide structured knowledge about the anthropogenic influence on the natural environment, natural resources, and rational principles of the management of the post-industrial and degraded areas. resources, as well as basic legal acts regulating the principles and methods of using the environment and its resources.
The program content includes the following topics: anthropogenic pression on natural environment. Basic legal acts in fields of environmental protection and land management. Fundamentals of environmental engineering. Methods of management of post-industrial and degraded areas. Methods of analysis of soil contamination. Rehabilitation of degraded areas.

Description:

Lecture - 30 hours:

1. Anthropogenic pression on natural environment.
2. Basic legal acts in fields of environmental protection and land management.
3. Fundamentals of environmental engineering.
4. Methods of management of post-industrial and degraded areas.
5. Methods of analysis of soil contamination.
6. Rehabilitation of degraded areas.

Bibliography:

Bhargava R. N., Rajaram V., Olson K., Tiede L.: Ecology and Environment. CRC Press, 2019.
Reid D.: Sustainable Development. An Introductory Guide. Routledge, 1995.
Benton D., Hazell J., Hill J.: The Guide to the Circular Economy. Capturing Value and Managing Material Risk. Routledge, 2015.
Wong M. H.: Remediation and Management of Degraded Lands. CRC Press, 1999.
Misiołek A., Kowal E., Bień J.: Ekologia. PWE
Gajdzik B., Wyciślik A.: Jakość, środowisko i bezpieczeństwo pracy w zarządzaniu przedsiębiorstwem. Wyd. Pol. Śląskiej
Kania A., Nowosielski R., Spilka M.: Zarządzanie środowiskowe i systemy zarządzania środowiskowego. Wyd. Pol. Śląskiej
Dobrzańska B., Dobrzański G., Kiełczewski D.: Ochrona środowiska przyrodniczego. PWN
Lipińska D: Podstawy inżynierii środowiska. Wyd. Un. Łódzkiego
Krystek J. (red.): Ochrona środowiska dla inżynierów. PWN

Learning outcomes:

Knowledge:
knows and understands
fundamental dilemmas of modern civilization (K1A_W20)
Skills:
is able to:

make a critical analysis of how existing solutions function
technical bonds and evaluate these solutions (K1A_U08)
take part in the debate – present, justify and evaluate different opinions and
positions and discuss them (K1A_U16)
independently plan and implement their own lifelong learning (K1A_U19)
Social competence:
is ready for:
fulfilling social obligations, co-organizing activities for the social environment and initiating activities for the benefit of the public (K1A_K03)

Assessment methods and assessment criteria:

Test
Personal activity

Practical placement:

Not applicable