

**DOCTORAL SCHOOL OF WROCLAW UNIVERSITY OF SCIENCE AND
TECHNOLOGY**

SUPERVISOR DECLARING/CONDUCTING COURSE: Herbert Wirth
DEPARTMENT: Faculty of Mining Geoengineering and Geology W6
SCIENTIFIC DISCIPLINE: Environmental Engineering, Mining and Energy

COURSE CARD

Course name in Polish: Górnictwo Światowe
Course name in English: World's Mining
Course language Polish/ English
University-wide general course type*:
The course is intended for all PhD students: YES / NO

- ~~1) BASIC COURSE~~
2) SPECIALIST COURSE
~~3) SEMINAR~~
~~4) HUMANISTIC COURSE~~
~~5) LANGUAGE~~

Subject code: IGQ100009W

* delete as applicable

	Lecture	Foreign language course	Seminar	Mixed forms
Number of hours of organized classes in university (ZZU)	30			
Grading	Exam	Exam	Oral presentation	Exam, inspection, evaluation classes
Number of ECTS points	0			

PREREQUISITES RELATING TO KNOWLEDGE, SKILLS AND OTHER COMPETENCES

1. Knowledge and understanding of basic terms in the field of mining
2. Knowledge about the genesis and forms of occurrence of deposits
3. Knowledge and understanding of basic concepts in the field of economics

COURSE OBJECTIVES

- C1 Acquisition of basic knowledge in the field of mining operations in the world
 C2 Acquainting with issues related to the deposits of particular mineral resources in the world
 C3 Acquisition of skills in the functioning of world's mining
 C4 Acquainting with the current state and prospects for the development of the world's mining

PROGRAM CONTENTS

Form of classes – lecture (Lec)		Number of hours
Lec1	Challenges and trends in world mining	2
Lec2	Principles of the mining industry	2

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Lec3	The condition of the mining industry in Poland	2
Lec4	Transformation of the Polish mining	2
Lec5	Global raw mineral resources	2
Lec6	Mining of energy resources in the world	2
Lec7	Hard coal	2
Lec8	Brown coal	2
Lec9	Petroleum	2
Lec10	Gas	2
Lec11	Metal ores	2
Lec12	Copper ores	2
Lec13	Zinc and lead ores	2
Lec14	Salt and sulfur mining	2
Lec15	Rock mining	2
	Total hours:	30

TEACHING TOOLS USED

- N1. Lecture based on multimedia presentations, industry and scientific journals, annual reports of enterprises
 N2. Moderated discussion
 N3. Consultations

ACHIEVED SUBJECT LEARNING OUTCOMES

Type of learning outcome	Code of learning outcome	Assessment of learning outcome
Knowledge	P8S_WG	has knowledge at an advanced level of discipline and subject matter relevant to the field of research carried out, including the most recent research findings and scientific achievements
Skills	P8S_UK	is able to prepare and make a public presentation of the results of research work, including a doctoral dissertation prepared under the supervision of a supervisor or supervisors, or an assistant supervisor and supervisor

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PRIMARY AND SECONDARY LITERATURE

PRIMARY LITERATURE:

- [1] International Journal of Mining Science and Technology
- [2] Mining magazine
- [3] Rudy i metale nieżelazne - Czasopismo Stowarzyszenia Inżynierów i Techników Metali Nieżelaznych SITMN
- [4] Archives of Mining Sciences – Czasopismo Polskiej Akademii Nauk
- [5] Przegląd górniczy – Czasopismo Stowarzyszenia Inżynierów i Techników Górnictwa
- [6] Przegląd geologiczny – Czasopismo Państwowego Instytutu Geologicznego

SECONDARY LITERATURE:

- [1] Annual reports of mining enterprises

SUBJECT SUPERVISOR (NAME AND SURNAME, E-MAIL ADDRESS)

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