Introduction to ore microscopy

Earth Sciences Engineering MSc course

2020/21. I. semester

COURSE COMMUNICATION FOLDER

University of Miskolc

Faculty of Earth Science and Engineering

Institute of Mineralogy and Geology

1. Course datasheet

<table>
<tr><td>Course Title: Introduction to ore microscopy
Instructor: Dr. Norbert Zajzon, Máté Zsigmond Leskó</td><td>Tantárgy kódja: MFFAT 730143
Responsible department/institute: ÁFI</td></tr>
<tr><td>Position on curriculum (which semester):
3. semester</td><td>Pre-requisites (if any): -</td></tr>
<tr><td>No. of contact hours per week (lecture + seminar): 1+1</td><td>Type of Assessment (examination/ practical mark / other): practical mark</td></tr>
<tr><td>Credits: 2</td><td>Course: full time</td></tr>
<tr><td colspan="2">Study goal: The course will allow students to gather knowledge ont he basics of the ore (reflected) microscope, the important ore minerals and structures.
Competencies to evolve:
Knowledge: T1, T5, T7, T8, T9
Ability: K1, K2, K5, K6, K9, K11
Attitude: A1, A2, A3, A4, A5, A7
Autonomy and responsibility: F1, F2, F3, F4, F5</td></tr>
<tr><td colspan="2"></td></tr>
<tr><td colspan="2">Education method: Theoretical lectures with .ppt presentation, laboratory exercises with the most important mineralogy samples.</td></tr>
<tr><td colspan="2">Type of Assessment (exam. / pr. mark. / other): practical mark:

Grading limits:
> 80 %: excellent
70 – 80 %: good
60 – 70 %: medium
50 – 60 %: statisfactory
< 50 %: unstatisfactory</td></tr>
<tr><td colspan="2">Compulsory or recommended literature resources:
Craig J. R és Vaughan D. J. (1994): Ore microscopy and ore petrography, Wiley-Interscience Publication, New York
Taylor R. (2009): Ore Textures, Springer, London</td></tr>
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2. Tematics

Week		Thematics
1	10.09.2020.	Intorduction, requirements
2	17.09.2020.	Basic optics, lecture
3	24.09.2020.	Intorduction to ore (reflected) microscope
4	01.10.2020.	Examination from theoratical parts
5	08.10.2020.	Native elements (lecture)
6	15.10.2020.	Native elments (practice)
7	22.10.2020	Sulphids (lecture)
8	29.10.2020.	Sulphids (practice)
9	05.11.2020.	Oxides (lecture)
10	12.11.2020.	Oxides (practice)
11	19.11.2020.	Structures, textures (lecture)
12	26.11.2020	Structures, textures (practice)
13	03.12.2020.	Consultation
14	10.12.2020.	Examination

Introduction to ore microscopy, examination

Name:……

1) Please sketch how the ore (reflected) microscope looks like and how it is working!
2) What is the wavelenght of the visible light?
3) What kind of minerals could be isotropic?

Practical examination

The students get 2-3 sample, and they have to

- identify the ore minerals
- identify the structures
- identify the ore type (if it is possible)