

123BM01 - BUILDING MATERIALS - EXAM

Date of exam - after agreement with students (usually 2 terms)

Total time: ca 3 - 4 hours

Written part (obligatory for all):

1. Test from general knowledge - ca 20 min

- 10 questions (from lectures)
- short answers
- no books or notes
- definitions, some chemical equations, properties and units, use of materials, comparison of materials
- no figures (except figures emphasized at lectures), no commercial names, no numbers of standards
- right answer/partly answered question/bad answer = 1/0,5/0 points → max. 10 points

2. Calculations - 45 min

- calculators necessary! (no mobile phones!)
- no books or notes
- official aid - one paper with formulas and values ([download](#) from our web page)
- 3 simple problems (similar to problems, solved at seminars):
 1. particle size distribution of mixture
 2. physical properties (density, bulk density, moisture content, porosity, thermal elongation...)
 3. mechanical properties (strength, modulus of elasticity...)

Grading:

Test : A: 9-10 points

B: 8 -8,5

C: 7 -7,5

D: 6 - 6,5

E: 5 - 5,5

F: under 5 points

Calculations:

A: 3 solved problems

C: 2 solved problems

E: 1 solved problem or partially solved all three problems

B, D : + other partially solved problem

Oral part and final result:

- same day as written part, ca 1 hour later
- 2 grades from the written part (e.g. B + D)
 - Satisfied with the worse grade? → No oral exam, worse grade is the final result of exam (e.g. D)
 - Want a better grade? → Oral exam → Final result =? (↑ ↓)
 - One grade is F → Oral exam obligatory, final result =? (↑ or F)
 - Both grades are F → ☹ Final result = F (failed) → New exam