

# ADVANCED MATERIALS TECHNOLOGY

(2+1; Signature, Practical mark, Credits 3)

(Requirements)

- **Course structure: 2 lectures and 1 practical lesson, practical mark – 3 credits**
- **Requirements:**
  - Participation in the 60% of lectures and practical lessons
  - Successful fulfilment of two tests and the project work
    - At least satisfactory level (40%) from each test and the project work
    - In case of failed tests the successful fulfilment of additional tests
- Practical mark cannot be given if*
  - the student does not participate in more than 40% of lectures and practical lessons
  - the student does not participate in the tests and additional tests (if necessary)
  - the student does not prepare the project work at least satisfactory level.
- **Number and duration of tests:**

Two tests have to be fulfilled.

  - date: 7<sup>th</sup>. and 13<sup>th</sup> week, duration: 60 min
  - evaluation: 60-60 scores, 1-5 grade levels  
1: 0...<40 % ; 2: 40...<53 % ; 3: 53...<67 % ; 4: 67...<80% ; 5: 80...100 %
- **Number of project works: one**
  - date of issue: 5<sup>th</sup> week
  - deadline: 13<sup>th</sup> week
  - evaluation: 30 scores, 1-5 grade levels
- **Number of measurement work: –**
  - deadline -
  - evaluation: -
- **Substitution possibilities:**
  - In case of failed tests there are two additional tests in the 14<sup>th</sup> week
- **Practical mark**
  - According to test results (60-60 scores) and project work (30 scores). Totally 150 scores can be achieved. Evaluation by 1-5 grade levels.
- **Exam:**
  - No exam
- **References:**
  - AMS Metals Handbook, Vol. 4 Heat Treating
  - AMS Metals Handbook, Vol. 6 Welding, Brazing and Soldering
  - AMS Metals Handbook, Vol. 7 Powder Metal Technologies
  - AMS Metals Handbook, Vol. 15 Casting

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