# Medical Biophysics – Schedule of practical training

<table>
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<th>Week of semester</th>
<th>Contents</th>
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| 1. (17. 9. – 21. 9.) | Safety and health protection rules  
Personal form  
Introduction to practical training.  
Physical quantities, conversion of physical units. Statistics, measurement errors. |
| 2. (24. 9. – 28. 9.) | Measurement of tasks determined by the teacher |
| 3. (1. 10. – 5. 10.) | Measurement of tasks determined by the teacher |
| 4. (8. 10. – 12. 10.) | Measurement of tasks determined by the teacher |
| 5. (15. 10. – 19. 10.) | Measurement of tasks determined by the teacher |
| 6. (22. 10. – 26. 10.) | Consultation about the semestral project. Final submission of the topic of the semestral project. |
| 7. (29. 10. – 2. 11.) | **1st continuous test** |
| 8. (5. 11. – 9. 11.) | (1st continuous test, if it does not take place in the 7th week of the semester.) Measurement of tasks determined by the teacher |
| 9. (12. 11. – 16. 11.) | Measurement of tasks determined by the teacher |
| 10. (19. 11. – 23. 11.) | Measurement of tasks determined by the teacher |
| 11. (26. 11. – 30. 11.) | Measurement of tasks determined by the teacher  
Submission of printed and electronic version of the semestral project. |
| 12. (3. 12. – 7. 12.) | Measurement of tasks determined by the teacher |
| 13. (10. 12. – 14. 12.) | **2nd continuous test**  
Finalisation of measurements.  
Assessment of the semestral project. |
| 14. (17. 12. – 21. 12.) | Re-examination of both continuous tests. |
| January 2019 | Repeated measurement of unaccepted and inadequately processed tasks.  
Second re-examination of both continuous tests. |

1\textsuperscript{st} continuous test - safety and health protection rules, physical quantities, conversion of physical units, measurement errors, basic statistics, microclimatic factors, measurement of illumination, thermometry, content of the first five lectures.

2\textsuperscript{nd} continuous test – content of practical trainings that was not included in 1\textsuperscript{st} continuous test, content of lectures until December 7, 2018, that was not in the 1\textsuperscript{st} continuous test.

Student can write each continuous test up to three times. If a student does not attend a test run, he / she loses the term without possibility to substitute the term.  
The second re-examination of both continuous tests will be in January 2019. The exact dates will be published no later than December 21\textsuperscript{st}.  

2018, September 17\textsuperscript{th} in Bratislava

Assoc. prof. RNDr. Martin Kopáni, PhD.  
Head of the Institute
List of practical tasks
(Particular study groups will realise tasks in different order)

1. Anthropometry
2. Dosimetry – background radiation
4. Measurement of illuminance
5. Measurement of selected microclimatic factors
6. Model of radioactive decay
7. Refractometry - Determination of concentration by optical methods
8. Spectrophotometry - determination of concentration by optical methods
9. Stalagmometry - measurement of surface tension
10. Thermometry
11. Indirect blood pressure measurement
12. Ultrasonographic measurement of blood flow velocity and pulsoximetry
13. USG imaging
14. Viscosimetry - measurement of viscosity
15. Current-voltage characteristics

Students of General medicine have to realise all practical tasks. Students of Dentistry have to realise at least 14 tasks (teacher can decide to exclude task 12. or 13.)

Students have to submit the record sheet together with the answers to the supplementary questions, graph, and other attachments at the end of the particular practical training. Otherwise, the task will be assessed with zero point.

If student receive in particular task no more than 20.0% of possible points, s/he is obliged to re-measure this task in January 2019 and elaborate a new record sheet.

2018, September 17th in Bratislava

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