



## Bachelor thesis supervisor's review

**Master thesis:** Electronic detection of drugs by nanoparticles covered interdigitated sensors

**Author:** Rustambek Bekmukhamedov

**Thesis supervisor:** RNDr. Ilona Ali Bláhová, Ph.D.

Rating (1 – 5)  
(1 = best; 5 = worst):

1. Fulfillment of assignment requirements:	<input type="text" value="1"/>
2. Self-reliance and initiative during the thesis solution:	<input type="text" value="1"/>
3. Systematic solutions of individual tasks:	<input type="text" value="1"/>
4. Ability to apply knowledge and to use literature:	<input type="text" value="1"/>
5. Collaboration and consultations with the thesis supervisor:	<input type="text" value="1"/>
6. Thesis formal and language level:	<input type="text" value="1"/>
7. Thesis readability and structuring:	<input type="text" value="1"/>
8. Thesis professional level:	<input type="text" value="1"/>
9. Conclusions and their formulation:	<input type="text" value="2"/>
<b>10. Final mark evaluation (A, B, C, D, E, F):</b>	<input type="text" value="A"/>

**verbal:**

### Brief summary evaluation of the thesis (compulsory):

The bachelor thesis is a part of the research that is focused to drug detection that is needed for biological and clinical research as well. The electrochemical impedance spectroscopy is one of methods that can be used for the drug detection. Mr. Bekmukhamedov studied the literature first then he started to measure different kinds of IDT sensors that were prepared for impedance spectroscopy measurement. For the increasing of sensors sensitivity different combinations of layers of nanodiamonds and gold nanoparticles were prepared. He was able to apply the methodology of sensor preparation very well. The set of O-DND sensors was prepared by him. During the measurements he tried to use two different methods a) the measurement in a chamber and b) the measurement in a HP Test Fixture.

Date: 12. 6. 2018

Signature:



Notes:

- 1) The total thesis evaluation needn't be determined by the partial evaluations average.
- 2) The total evaluation (item 8) should be from the following scale:

excellent	very good	good	satisfactory	sufficient	insufficient
A	B	C	D	E	F