

## **Annotation of Doctoral Thesis Topics for Degree Programme: Material Sciences and Engineering, course in „Biomaterials and Biocomposites“**

**Topic:** Preparation of Higly Functional Antibacterial Surfaces

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### **Annotation:**

The aim of this work will be preparation of materials with active surfaces, which will be antibacterial. Surfaces will be prepared via multistep synthesis. Antibacterial agent will be anchored to such prepared surfaces. Prepared samples will be subjected to analysis of the interaction with bacterial systems.

### **Requirements:**

Knowledge of general and macromolecular chemistry and physics at the university level. Good knowledge of the English language or a potential to the improvement. Basic manual and laboratory work skills. Ability to work independently.