

SUPERVISOR REVIEW OF DIPLOMA THESIS

Author of thesis: Akshat Tegginamath

Thesis title: Antimicrobial treatments for textile materials

Supervisor: Ing. Ondřej Novák, Ph.D.

1. Evaluation of diploma thesis

| Evaluation | Excellent | Excellent minus | Very good | Very good minus | Good | Failed |
|---|-----------|-----------------|-----------|-----------------|------|--------|
| Fulfillment of the goal and assignment of the work | X | | | | | |
| Quality of research part | X | | | | | |
| Methodology of work solution | X | | | | | |
| Factual level of work | X | | | | | |
| Contribution of work and potential applicability of results | | X | | | | |
| Formal and graphic level of work | | X | | | | |

2. Comments and remarks on the diploma thesis

This thesis deals with possible antibacterial treatment of textile materials. The main part of the work is focused on research in literal sources. Due to COVID-19 situation the experimental part is executed in a limited range. The research part is focused not only on possibilities to prepare antibacterial layers based on textile materials, there is also included the testing of antibacterial efficiency. In thesis is cited more than two hundreds of sources, which for this type of work is very high. The experiment is chosen based on research. Author applied two different ways for creation of antibacterial function of spun-blown material. The results are clearly shown, but there misses deeper discussion. The thesis is clearly arranged, without typing errors. From point of view of factual level, the source are corresponding with solved topic. Figures and schemes are in a good resolution and give complementary information. Results of experiment were not successful, but obtained information can be important for further development of antibacterial materials for personal protection. The plagiarism control system did not find any similar document, the match is 0 %. Thus it can be assumed that the thesis is original.

3. Diploma thesis questions

Could you discuss and explain the way of filtration properties optimization?


4. Opponent's statement whether the diploma thesis meets the requirements for the award of an academic degree and whether it is recommended for defense

The diploma thesis meets the requirements for the title of engineer. I recommend that for the defence.

5. Classification of the opponent of the diploma thesis

I propose to classify this diploma thesis with the degree: **Excellent.**

In Liberec, 8. 9. 2021



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signature and name of supervisor