

DIPLOMA THESIS EVALUATION

Student's name and surname: **Sribalagi Rajaganesh**
 Name of the diploma thesis: **Testing of Structural Materials for Additive Manufacturing by FLM Technology**
 Supervisor of the thesis: **Ing. Petr Keller, Ph.D.**

1. Diploma thesis evaluation

| Evaluation | excellent | excellent minus | very good | very good minus | good | failed |
|--|-----------|-----------------|-----------|-----------------|------|--------|
| Meeting the goal and fulfilling task of the thesis | X | | | | | |
| Quality of conducted survey | | X | | | | |
| Methodology of solutions | | X | | | | |
| Expert level of the thesis | | | X | | | |
| Merit of the thesis and its potential applicability of results | | X | | | | |
| Formal and graphic level of the thesis | | | X | | | |
| Student's personal approach | X | | | | | |

Mark x in the corresponding box.

Supervisor's final evaluation is based on his/her overall subjective evaluation.

Grading is stated literally in the article no. 5, neither by a number, nor by a letter.

2. Comments and remarks on diploma thesis:

The aim of this work is to find suitable parameters for 3D printing of given structural materials using FLM technology. In the research part author describes the basic properties of the materials used for testing. This description is relatively brief but sufficient.

Furthermore, the methodology for testing is set. First, the 3D print parameters are sorted by ABC analysis and then the experiment is planned using the Taguchi method. Here the author made a simplification, using only 3 instead of the 5 parameters from the ABC analysis. However, this simplification is not enough explained in the work. Following is a description of experiments for given materials and determination of 'optimal' print parameters.

3. Questions about diploma thesis:

- How was determined the shape of the test part and what is its size? These pieces of information are missing in the work.
- How did you choose the best 3D print quality?



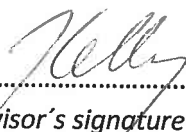
4. Supervisor's statement on results of the inspection carried out by the anti-plagiarism program in the STAG system:

The result of the analysis from the IS STAG is found match only in the attached 3D print configuration files, where the names of the individual print parameters have to be identical. It can therefore be said that the submitted work is original.

5. Supervisor's grading of the diploma thesis:

EXCELLENT MINUS

Date: 13 May 2019, in Liberec


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Supervisor's signature

