

## I. IDENTIFICATION DATA

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|-------------------------------|---|
| <b>Thesis name:</b>           | <b>Optimization of Inventory in Warehouse Locations</b> |
| <b>Author's name:</b>         | <b>Bc. Barbora Sikolova</b>                             |
| <b>Type of thesis :</b>       | master  |
| <b>Faculty/Institute:</b>     | Faculty of Transportation Sciences (FTS)                |
| <b>Department:</b>            | Department of Transport Telematics, K620                |
| <b>Thesis reviewer:</b>       | doc. Ing. Zdenek Lokaj, Ph.D.                           |
| <b>Reviewer's department:</b> | Faculty of Transportation Sciences (FTS), CTU in Prague |

## II. EVALUATION OF INDIVIDUAL CRITERIA

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| <b>Assignment</b><br><i>Evaluation of thesis difficulty of assignment.</i><br>The diploma assignment was challenging, student should creatively propose a solution of an optimization of e-shop stock.   | <b>challenging</b>                     |
| <b>Satisfaction of assignment</b><br><i>Assess that handed thesis meets assignment. Present points of assignment that fell short or were extended. Try to assess importance, impact or cause of each shortcoming.</i><br>The author fulfilled the assignment with a small gaps in the theoretical part, where the author should write more detailed analysis of practical implementation of warehouse inventory optimization. On the other hand, the practical part of thesis is very impressive.  | <b>fulfilled with minor objections</b> |
| <b>Method of conception</b><br><i>Assess that student has chosen correct approach or solution methods.</i><br>The author chooses the right approach to a solution that is systematic based on the theoretical basis and subsequently using the simulation methods applied to the specific data from the e-shop for which the master's thesis is being processed.   | <b>correct</b>                         |
| <b>Technical level</b><br><i>Assess level of thesis specialty, use of knowledge gained by study and by expert literature, use of sources and data gained by experience.</i><br>Technically, the work is at a very high level, however, for the successful evaluation of the achieved results in the work there is no research on realization in other operations. On the other hand, I understand that getting relevant information from commercial companies is very complicated and there is very limited public sources.<br>I greatly appreciate practical focus of the thesis and the solution to a problem of optimization of warehouses, which has many dimensions – technical, economical, process. I also appreciate author's cooperation with one of the biggest e-shops in the Central Europe. | <b>B - very good.</b>                  |
| <b>Formal and language level, scope of thesis</b><br><i>Assess correctness of usage of formal notation. Assess typographical and language arrangement of thesis.</i><br>The structure of the work is comprehensible and clear. The graphic of the work is good and clear, although in some cases the pictures could be more clear in order to express the information.   | <b>A - excellent.</b>                  |
| <b>Selection of sources, citation correctness</b><br><i>Present your opinion to student's activity when obtaining and using study materials for thesis creation. Characterize selection of sources. Assess that student used all relevant sources. Verify that all used elements are correctly distinguished from own results and thoughts. Assess that citation ethics has not been breached and that all bibliographic citations are complete and in accordance with citation convention and standards.</i><br>Student has chosen the proper approach of obtaining information, but not as deep as it was necessary, mainly in the research part of the thesis should be used more sources. Some of the citations should be listed better.   | <b>B - very good.</b>                  |

### Additional commentary and evaluation

*Present your opinion to achieved primary goals of thesis, e.g. level of theoretical results, level and functionality of technical or software conception, publication performance, experimental dexterity etc.*

Please insert your commentary (voluntary evaluation).

### III. OVERALL EVALUATION, QUESTIONS FOR DEFENSE, CLASSIFICATION SUGGESTION

*Summarize thesis aspects that swayed your final evaluation. Please present apt questions which student should answer during defense.*

The presented diploma thesis is processed in a very interesting way. Author focused more on the practical part of optimization and its simulation. The theoretical part should be more detailed mainly in better description of existing optimization methods used by similar companies and comparison of the results obtained with other methods used.

I appreciate the thesis for practical focus on solving a particular problem described by one of the biggest e-shop in Central Europe, including working with specific data as an input of optimization algorithms.

Formally, the work is done in good quality, the text and the structure are comprehensible. Selection of used resources could be more extensive.

I evaluate handed thesis with classification grade **B - very good**.

Questions:

1. Is there any other e-shop using similar inventory optimization methods mentioned in your diploma thesis?
2. How do the results achieved by the optimization method differ with other methods used in practice?

Date: **18.6.2017**

Signature:

