

I. IDENTIFICATION DATA

Thesis name:	A MULTILEVEL APPROACH TO MEASURING OF INDUSTRIAL AREAS DUE TO THE RISK OF FAILURE IN TECHNOLOGICAL PROCESSES
Author's name:	Martin Zigo
Type of thesis :	bachelor
Faculty/Institute:	Faculty of Civil Engineering (FCE)
Department:	Construction technology
Thesis supervisor:	Ing. Alexander Kravcov, Ph.D.
Supervisor's department:	Construction technology

II. EVALUATION OF INDIVIDUAL CRITERIA

Assignment	extraordinarily challenging
<i>Evaluation of thesis difficulty of assignment.</i>	
The aim of the thesis is to "control the details of critical manufacturing specific plan in architectural design and go through the recommendations for durability in critical metal manufacturing for implementation in Czech Republic". The aim is extremely important in nowadays and reflects the actuality.	

Satisfaction of assignment	fulfilled
<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>	
In Part 1 you can see history of history of industrial areas in Czechia and general principals of categorization. Part 2 is describing design of industrial areas, next part 3 is about specifics of metal processing industrial areas, it explains characteristics of engineering factories, urbanistic and some functional dividing of the metal processing facilities. Last part shows the practice adaptation of the norms and recommendations for risk assessment and hazard management in a metal processing plant. This part completely describing all the parts of processes about Identification of risks and monitoring and focuses on the analysis of risks accompanied by the manufacturing processes. Part 5 presents implementation of norms and standards in the field of industrial safety during the design, realization and exploitation of metal processing industrial areas.	

Activity and independence when creating final thesis	A - excellent.
<i>Assess that student had positive approach, time limits were met, conception was regularly consulted and was well prepared for consultations. Assess student's ability to work independently.</i>	
Student was extraordinary active during his work on this thesis to propose a suitable solution for safety and emergency escape plan of the personnel working in the object that fits the technological processes that are being performed there.	

Technical level	A - excellent.
<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>	
Student carried out an analysis of existing norms and recommendations and used outputs in design of industrial areas especially the design of industrial areas where production is being handled, focused on the analysis of risks accompanied by the manufacturing processes. The bibliography is sufficient.	

Formal and language level, scope of thesis	B - very good.
<i>Assess correctness of usage of formal notation. Assess typographical and language arrangement of thesis.</i>	
Formal, language and stylistic levels of thesis are good. The thesis is divided in two main recommended parts. The theoretical and practical parts are well balanced. The text flows logically.	

Selection of sources, citation correctness	A - excellent.
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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.

In the both theoretical and practical parts of thesis, there is appropriate number of resources used. Author skip from specific information to general – from introduction to classification of risks in the field of industrial plants to advantages of use of modern norms and recommendations. Nevertheless, there is good work with literature sources.

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.

The aim of this bachelor dissertation was to analyze structural design itself to propose a suitable solution for safety and emergency escape plan and find out its effectiveness in industrial safety on practice and it's perfectly done.

III. OVERALL EVALUATION, QUESTIONS FOR DEFENSE, CLASSIFICATION SUGGESTION

In my opinion high level of both theoretical research and practical implementation.

I evaluate handed thesis with classification grade **A - excellent**.

Date: **14.6.2019**

Signature: