

I. IDENTIFICATION DATA

Thesis name:	DESIGN ASSISTANCE SYSTEM APPLIED TO VEHICLES SUSPENSION DESIGN
Author's name:	Bc. Pavel Skoupý
Type of thesis :	master
Faculty/Institute:	Faculty of Mechanical Engineering (FME)
Department:	Vehicle Center of Sustainable Mobility
Thesis reviewer:	T. Kamerling MSc.
Reviewer's department:	Master Engineering Systems HAN.

II. EVALUATION OF INDIVIDUAL CRITERIA

Assignment	extraordinarily challenging
<i>Evaluation of thesis difficulty of assignment.</i>	
The assignment was challenging because the graduate had to combine knowledge about vehicle dynamics and vehicle technology in combination with the knowledge of database structures, where the last issue is not in the curriculum specifically	

Satisfaction of assignment	fulfilled
Analysing the vehicle dynamics and organizing everything in a useable database is done in a very good way. The database is very usable, the process was done smoothly by the student.	

Method of conception	outstanding
<i>Assess that student has chosen correct approach or solution methods.</i>	
Doing research, proper methods are used to build the database. The vehicle analysis to fill the database was done very structural, as is showed in the report.	

Technical level	A - excellent.
Judgement about implementing the vehicle data into the database were made in an outstanding way. The starting point was very broad, the student focused on an implementation of the database that should work. The database actually works.	

Formal and language level, scope of thesis	C - good.
<i>Assess correctness of usage of formal notation. Assess typographical and language arrangement of thesis.</i>	
The student has written the report well. There are a clear link between the objective and the research questions and the structure of the report. Some repetition of information could be avoided. Because of the limitation of the number of pages, for economical reasons, the student started new chapters halfway the page. The language used is well readable.	

Selection of sources, citation correctness	B - very good.
<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>	
The literature study is extensive and all sources were relevant. The referencing follows a particular standard (IEEE) in a correct way. The student did not quote in a wrong way in the report.	

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 student achieved all goals of the thesis at high masters' level. The company got a very usable result out of the thesis.

III. OVERALL EVALUATION, QUESTIONS FOR DEFENSE, CLASSIFICATION SUGGESTION

Summarize thesis aspects that swayed your final evaluation.

Pavel was able to successfully create a database intended for suspension setups of road cars and additionally a procedure to populate it as well. The results are implemented in a logical way considering all the physical limitations of the test facilities. The recommendations and future expansions mentioned are logical and describe the impact on the effectiveness of the database for various application and uses

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

Grading: 85 out of 100

Date: **8.2.2023**

Signature: 