REVIEWER'S OPINION OF FINAL THESIS

I. IDENTIFICATION DATA

Thesis name:	**Measurement of the elastokinematics of wheel suspension**
Author's name:	**Anand Manda**
Type of thesis :	master
Faculty/Institute:	Faculty of Mechanical Engineering (FME)
Department:	12120
Thesis reviewer:	Vojtěch Klír
Reviewer's department:	12201

II. EVALUATION OF INDIVIDUAL CRITERIA

Assignment **challenging**

Evaluation of thesis difficulty of assignment.

The topic of the thesis is quite specific and requires the student to learn the theory of elastokinematics of wheel suspension and get familiar with specific measurement software and hardware.

Satisfaction of assignment **fulfilled with major objections**

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.

The assignment was generally fulfilled, theoretical points were fulfilled but some parts were not fabricated. So there was no possibility to verify their functionality in practice.

Method of conception **correct**

Assess that student has chosen correct approach or solution methods.

The aim of the work was to improve the test bench for measurements. Six tasks were defined. All steps were solved correctly.

Technical level **C - good.**

Assess level of thesis specialty, use of knowledge gained by study and by expert literature, use of sources and data gained by experience.

The work contains short introduction to elastokinematic of wheel suspension. The student had to carry out exploration of various sources and summarized all relevant information about it in a well arranged way in the work. The technical level is quite good.

Formal and language level, scope of thesis **C - good.**

Assess correctness of usage of formal notation. Assess typographical and language arrangement of thesis.

The work is well and logically arranged. Language is good. Student presents technical issues in charts well, however, the charts are sometimes small and of low quality.

Selection of sources, citation correctness **C - good.**

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.

Sources used and stated by students are relevant, however, the citation is missing at some figures, which makes it hard to recognize author's own work/figures.

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.

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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.

Anand Mand by his thesis proved that he is able to handle an engineering task. He composed introduction to elastokinematics theory. Then, by analyzing of previous works, he prepared the test bench for measurements. He was also able to design the linear quide system also for second wheel including the support system for the new sensors. Unfortunately, some parts were not manufactured, so the design solution could not be verified, which decreases the technical level of the work.

The work is logically and comprehensibly arranged, however, some mistyping or careless errors occur. Regarding the formal level, I was missing references to some used figures.

Question: What are the limitations in case that wheel replacement is used?

I evaluate handed thesis with classification grade **C - good.**

Date: **29.1.2019** Signature: