Classification of Bachelor Thesis – supervisor

Author of classification: Ing. Zdeněk Poruba, Ph.D.
Supervisor: Ing. Zdeněk Poruba, Ph.D.
Opponents: Ing. Michal Šofer, Ph.D.
Title: Design and Numerical Modeling of Impact Attenuator
Thesis version: 1
Student: Phu Ma Quoc

1. Achieved results
   The bachelor work deals with the design of impact attenuator for the Formula Student competition car. The topic is based on requirements of Formula Student team, so its benefit and practical usability is undisputable.

2. Problematics of thesis
   The design and mechanical properties of the impact attenuator are solved using the explicit dynamics method in the finite element software ANSYS Workbench. The construction of the impact attenuator must meet number of conditions given by rules of the Formula Student project and is also limited by the shape of the formula frame. Meeting these relatively strict conditions is the evidence that the student has mastered principals of dynamical behavior of the formula car during impact. With respect to the nature and extensibility of aims required, the work can be considered as highly time consuming and knowlege demanding.

3. Student’s proceed to work at thesis
   The student worked hard on the topic given, he regulary consulted partial steps of the work and independetly solved tasks given by the supervisor.

4. Formal essentials of thesis
   The work is successful both graphically and grammatically, it contains only minimal grammar mistakes and typing errors.

5. Questions to student
   Due to regular consultations and discussions of problem arrisen, I don’t have any questions.

6. General revaluation of thesis
   With respect to the succesful compleition of difficult aims, I recommend the work with pleasure to be defended and I evaluate it by the grade EXCELLENT.

Overall classification: excellent

Ostrava, 07.06.2018

Ing. Zdeněk Poruba, Ph.D.