September 5, 2016

Student affairs department
Faculty of Mechanical Engineering
Brno University of Technology

Statement by Supervisor on Submission of Doctoral Thesis

David Nečas submitted the doctoral thesis entitled The Effect of Synovial Fluid Constituents on Lubrication of Hip Joint Replacements.

The topic of thesis is current and relevant in the context of up-to-date research in theory of hip joint replacements lubrication. The novelty as well as scientific level of the thesis is very good.

Doctoral thesis is well structured and correctly presented. It fulfills all formal requests. The author has studied and used appropriate number of bibliography sources and has performed good orientation and wide knowledge of different parts of theory. The presented work is well-elaborated and sources cited are relevant to the chosen topic. The author shows the ability to conduct independent analysis and the final conclusions have creditable value.

Aims and methods are clearly described, author represents the ideas and knowledge with sufficient theoretical background. The aims were fulfilled, methods of research work are appropriate to the aims and hypotheses formulated in the thesis.

To sum up, the doctoral thesis by David Nečas represents high level scientific work and fulfills all the conditions for gaining the PhD. degree in; therefore it is recommended.

Sincerely,

professor Martin Hartl
David Nečas's supervisor