



SUPERVISOR'S EVALUATION OF BACHELOR THESIS

I. IDENTIFICATION DATA

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| Title: | Power characteristics of impellers |
| Author: | Amir Mohamed Amir Elhosiny Ibrahim |
| Type of thesis: | Bachelor |
| Faculty/department: | Faculty of Mechanical Engineering |
| Department: | Department of Process Engineering |
| Supervisor: | assoc. prof. Ing. Lukáš Krátký, Ph.D. |
| Supervisor's place of employment: | FME CTU in Prague, Department of Process Engineering |

II. EVALUATION CRITERIONS

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| Diploma thesis assignment | Average |
| <i>Difficulty evaluation of the diploma thesis assignment.</i> | |
| The main aim of thesis was to experimentally evaluate power number dependence on Reynolds number for mechanically agitated systems with central mixing systems without baffles for various types of impellers, their geometrical set-up and for two different liquids, i.e. water and glycerine. | |

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| Fulfilment of thesis's assignment | Fulfilled |
| <i>Evaluate, whether the proposed final work fulfils the assignment. Comment where appropriate, points of reference that were not fully met, or if the work is extended compared to assignment. If the assignment is also not completely fulfilled, try to assess the importance, impact and possibly cause various deficiencies.</i> | |
| The main tasks are discussed in individual chapters and subchapters. The tasks of thesis were therefore fulfilled. | |

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| Activity and independence during thesis's processing | E-sufficient |
| <i>Evaluate whether the student was active during thesis's processing, whether he respected specific deadlines, if his solution was continuously consulted and whether he was sufficiently prepared for consultations. Consider the student's ability to work independently and creatively.</i> | |
| I was nominated as supervisor for time period 19.2.2018-23.2.2018 to help him to complete his thesis due to absence of head supervisor dr. Moravec. He was active to complete the thesis. He tried to fulfil all tasks given by supervisor for everyday meetings. Nevertheless, a strong support was needed during consultations to finish the thesis. He was not absolutely able to complete it independently. | |

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| Professional level | E-sufficient |
| <i>Assess the expertise level of thesis, using knowledge gained from the study of scientific literature, documentation and utilization of data obtained from practice.</i> | |
| The professional level of the text itself and all the performed analysis are at basic acceptable level without interpretations as demanded. | |

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| Formal and language level | E-sufficient |
| <i>Assess formal correctness in the bibliography, the typographical and linguistic aspects of thesis.</i> | |
| Thesis contains all the necessary formal requirements, i.e. structure, symbolics, etc.. | |

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| Bibliography | E-sufficient |
| <i>Comment the student's activity during the acquisition and use of learning materials to solve thesis. Characterize the selection of sources. Assess whether the student made use of all relevant sources. Verify that adopted information is properly distinguished from student's results and considerations, whether citation forms are correspond with ethics, whether bibliographic citations are complete and finally whether all citation are in accordance with the practices and standards.</i> | |
| Author used relevant 6 references in the text. Citations in the manuscript and their format listed in the bibliography are NOT in accordance with the European Copyright Act No. 121/2000 and even with all the citation practices. | |



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Other comments

Comment the level achieved major results of the final work, e.g. the level of theoretical results, or the functional level of technical solutions, publication outlets, experimental skills, etc.

No comments

III. FINAL EVALUATION AND PROPOSAL OF CLASSIFICATION

Summarize aspects of the thesis that most influenced your final evaluation.

I was nominated as supervisor for time period 19.2.2018-23.2.2018 to help him to complete his thesis due to absence of head supervisor dr. Moravec. Mr. Elhosiny did plenty of experimental work and he got plenty of valuable data. Nevertheless, the quality of thesis fully corresponds with a time press to submit the thesis. A strong support was needed during consultations to finish thesis in such a submitted state of art. The thesis is at a minimum professional level that can be accepted like bachelor thesis of practical bachelor.

Based on its quality and student's level during preparation of the thesis, me undersigned Lukas Kratky, I evaluate it as the supervisor by the grade **E – sufficient**.

Date: 19.6.2018

Signature: assoc. prof. Ing. Lukáš Krátký, Ph.D.