

I. IDENTIFICATION DATA

Thesis title:	Experimental and CFD analysis of feed pellets in fish tank
Author's name:	Ahsanulnas Miardi
Type of thesis :	bachelor
Faculty/Institute:	Faculty of Mechanical Engineering (FME)
Department:	Process Engineering
Thesis supervisor:	doc. Ing. Karel Petera, Ph.D.
Supervisor's department:	Process Engineering

II. EVALUATION OF INDIVIDUAL CRITERIA

Assignment	ordinarily challenging
<i>How demanding was the assigned project?</i>	

Fulfilment of assignment	fulfilled
<i>How well does the thesis fulfil the assigned task? Have the primary goals been achieved? Which assigned tasks have been incompletely covered, and which parts of the thesis are overextended? Justify your answer.</i>	

Methodology	correct
<i>Comment on the correctness of the approach and/or the solution methods.</i>	

Technical level	C - good.
<i>Is the thesis technically sound? How well did the student employ expertise in the field of his/her field of study? Does the student explain clearly what he/she has done?</i>	

Formal and language level, scope of thesis	C - good.
<i>Are formalisms and notations used properly? Is the thesis organized in a logical way? Is the thesis sufficiently extensive? Is the thesis well-presented? Is the language clear and understandable? Is the English satisfactory?</i>	

Selection of sources, citation correctness	C - good.
<i>Does the thesis make adequate reference to earlier work on the topic? Was the selection of sources adequate? Is the student's original work clearly distinguished from earlier work in the field? Do the bibliographic citations meet the standards?</i>	

Additional commentary and evaluation (optional)

Comment on the overall quality of the thesis, its novelty and its impact on the field, its strengths and weaknesses, the utility of the solution that is presented, the theoretical/formal level, the student's skillfulness, etc.

III. OVERALL EVALUATION, QUESTIONS FOR THE PRESENTATION AND DEFENSE OF THE THESIS, SUGGESTED GRADE

Summarize your opinion on the thesis and explain your final grading.

The author showed good abilities of individual work. He made very useful experiments to determine properties of feed pellets used in fish tanks. Using these properties and DPM model, he performed CFD simulations in ANSYS Fluent for a given geometry of a fish tank. A more thorough analysis of how the parameters affect the distribution of feed pellets in the tank would be useful. The methods and procedures used in the thesis seems to be correct. The language level as well as formal aspects of the thesis are good.

I evaluate the thesis by grade

Date: 23.1.2020

Signature: