

I. IDENTIFICATION DATA

Thesis title:	Automatic characterization of particulate matter by sedimentation
Author's name:	Paranjit Pareshbhai Patel
Type of thesis :	bachelor
Faculty/Institute:	Faculty of Mechanical Engineering (FME)
Department:	Process Engineering
Thesis reviewer:	Ing. Michal Netušil, Ph.D.
Reviewer's department:	Process Engineering

II. EVALUATION OF INDIVIDUAL CRITERIA

Assignment	extraordinarily challenging
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Fulfilment of assignment	fulfilled with minor objections
Hypothesis explaining the results of measurement is missing.	

Activity and independence when creating final thesis	A - excellent.
Progress of thesis elaboration was continuous. Student can work independently and made extra work beside the scope of thesis.	

Technical level	C - good.
Theoretical background is very good. Practical part contains own experiments and data processing. However in experimental part student does not clearly explain procedure of data evaluation. Graphs are not correctly done, missing legends and units of axis. Conclusion is not well written.	

Formal level and language level, scope of thesis	C - good.
Formalisms and notations are used properly. Thesis is organized in a logical way. Information are well-presented. The language contains lot of grammatic mistakes, but generally is understandable.	

Selection of sources, citation correctness	B - very good.
The selection of sources is adequate. Student's original work is clearly distinguished from references. However the bibliographic citations do not meet the standards.	

Additional commentary and evaluation (optional)	
No additional comments.	

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

The assignment is not fulfilled completely. The practical part contains partial evaluation of provided data.

The grade that I award for the thesis is **B - very good**.

Questions:

1. How was from collection of 150 image frames made from the sedimentation test video the x-axis transformed to time? Were the images taken periodically with a constant time step?
2. What represent the y-axis in Fig.15, 16, 18, 20, 22? Shouldn't be the ratio H/H_0 in range 0-1?

Date: **17.8.2022**

Signature:

