

ASSIGNMENT

MSc THESIS (FINAL PROJECT BMEGEÁTMWD2)

Title:	Development of diagnostic methods for investigating physical properties of Al(OH)₃ sludge
Author's name (code):	Gábor KARÁCSONY (O9DBMS)
Curriculum:	MSc in Mechanical Engineering Modelling / spec. Fluid Mechanics
Curriculum's code:	2N-MW0-FM
Supervisor's name, title:	Dr. Gergely KRISTÓF, associate professor
Affiliation, address:	Department of Fluid Mechanics / BME H-1111 Budapest, Bertalan L. 4-6.
Advisor's name, title:	-
Affiliation, address:	-
Handed out / Deadline:	8th of September 2014. / 12th of December 2014.
Curriculum subjects (code), credits:	1. Computational Fluid Dynamics (BMEGEÁTMW02), 5 cr 2. Flow Measurements (BMEGEÁTMW03), 5 cr 3. Building Aerodynamics (BMEGEÁTMW08), 3 cr 4. Aerodynamics and its Appl. Vehicles (BMEGEÁTMW19), 3 cr
Title of the Major Project (BMEGEÁTMWD1):	Development of diagnostic methods for investigating physical properties of Al(OH)₃ sludge
Description / refinement of the Major Project (BMEGEÁTMWD1):	1. To prepare literature survey in density measurement techniques; 2. To develop one or more simple to implement measuring methods which are applicable for investigating Al(OH) ₃ sludge; 3. To design and to construct measurement setups; 4. To carry out laboratory measurements and compare the results of various methods; 5. To analyse the measurement error; 6. To prepare an at least 30 page English language summary about the results of the above tasks.
Description of the Final Project (BMEGEÁTMWD2):	1. To prepare literature survey in settling tests and rheological measurements; 2. To prepare design of experiments for settling tests and rheological measurements; 3. To prepare software and hardware components for the experiments and evaluation; 4. To carry out and evaluate laboratory experiments; 5. To document experimental methodology and measurement results.



Budapest, 8th of September 2014.

(L.S.)

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supervisor

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Dr. János VAD, full professor
Head of Department

Approved by:
Budapest, 8th of September 2014.

(L.S.)

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Dr. Tibor CZIGÁNY
Dean of Faculty

Received by:
Budapest, 8th of September 2014.

The undersigned declares that all prerequisite subjects of the Final Project have been fully accomplished. Otherwise, the present assignment for the MSc Thesis and the subject's registration for BMEGEÁTMWD2 are considered to be invalid.

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student

Supervisor's declaration of acceptance:	The submitted MSc Thesis fulfils all requirements of the Department of Fluid Mechanics, Budapest University of Technology and Economics. The MSc Thesis is accepted for review process and public defence.
Supervisor's proposal for final grade of the MSc Thesis:	<div style="border: 1px solid black; padding: 5px; text-align: center;"> The proposed final grade* of the MSc Thesis: </div> <p>* Please, select one: excellent (5), good (4), medium (3), acceptable (2), fail (1)</p>
Date:	Budapest, 12 th of December 2014.
Name / Signature: supervisor

Reviewer's proposal for final grade of the MSc Thesis:	<div style="border: 1px solid black; padding: 5px; text-align: center;"> The proposed final grade* of the MSc Thesis: </div> <p>* Please, select one: excellent (5), good (4), medium (3), acceptable (2), fail (1)</p>
Date:	
Name / Signature: reviewer

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