
ASSIGNMENT

BSc INDIVIDUAL PROJECT 1. (BMEGEVGAG06)

Title: **Development of setup for measurement technique based on digital image processing for application in gear-wheel induced oil-air two-phase flow**

Author's name (code): **Mahmoud ASALI (BU8HG2)**
Curriculum: BSc in Mechanical Engineering / spec. Process Engineering
Curriculum's code: **2N-A-AG0-FT**

Supervisor's name, title: Zsolt Várhegyi, PhD student
Affiliation: Department of Fluid Mechanics / BME
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Advisor's name, title: -
Affiliation: -
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Description / tasks of the project: 1. Literature review of measurement techniques for two phase flows based on image processing;
2. Selection of one technique suitable for application in gear-wheel induced oil-air two-phase flow;
3. Implementation of selected technique on the department experimental setup;
4. Measurements with existing techniques and the new technique;
5. Discussion of raw results with indication of possible developments of the setup and the processing algorithm.

Handed out / Deadline: **11th of February 2013. / 17th of May 2013.**
Budapest, 11th of February 2013.

(L.S.)

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supervisor

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Dr. János VAD, associate professor
Head of Department

Received by:
Budapest, 11th of February 2013.

The undersigned declares that all prerequisite subjects of the Individual Project 1. have been fully accomplished. Otherwise, the present assignment and the subject's registration are considered to be invalid.

.....
student



Supervisor's declaration of acceptance:	The submitted Project Report fulfils all requirements of the Department of Fluid Mechanics, Budapest University of Technology and Economics.
Supervisor's proposal for final grade of the thesis:	<div style="border: 1px solid black; padding: 10px; margin: 10px auto; width: 80%;"><p>The proposed final grade* of the Project Report:</p><p>.....</p></div> <p>* Please, select one: excellent (5), good (4), medium (3), acceptable (2), fail (1)</p>
Date:	Budapest, 17 th of May 2013.
Name / Signature:	<p>.....</p> <p>supervisor</p>

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