

ASSIGNMENT

MSc MAJOR PROJECT (BMEGEÁTMWD1)

Title: **Evaluation of flow quality in a large open test-section wind tunnel**

Author's name (code): **Árpád VARGA (PDSGNN)**
Curriculum : MSc in Mechanical Engineering Modelling / Fluid Mechanics

Supervisor's name, title: **Márton BALCZÓ, assistant research fellow**
Affiliation: **Department of Fluid Mechanics / BME**

Description / tasks of the project:

- 1) Literature research on flow quality requirements in case of open test section wind tunnels
- 2) Preparation of LWTTTS for the test section scan with an appropriate probe (Pitot-tube, HWA) by installing the probe holding arm and complementary components (streamlined covering, energy chain, cables, data acquisition card)
- 3) Writing a software application in LabView environment for programmed automatic test-section scan.
- 4) Performing velocity, turbulence and static pressure measurements in grid points along different horizontal and vertical planes.
- 5) Evaluation and visualisation of measurement results.

Handed out / Deadline: **6th of February 2012. / 14th of May 2012.**
Budapest, 6th of February 2012.

(L.S.)

Received by:
Budapest, 6th of February 2012.

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Dr. János VAD, associate professor
Head of Department

The undersigned declares that all prerequisite subjects of the Major Project have been fully accomplished. Otherwise, the present assignment for the Major Project is to be considered invalid.

.....
student



<p>Supervisor's declaration of acceptance:</p>	<p>The submitted Project Report fulfils all requirements of the Department of Fluid Mechanics, Budapest University of Technology and Economics.</p>
<p>Supervisor's proposal for final grade of the thesis:</p>	<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>
<p>Date:</p>	<p>Budapest, 14th of May, 2012.</p>
<p>Name / Signature:</p>	<p>..... Márton BALCZÓ, assistant research fellow supervisor</p>

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