

ASSIGNMENT

MSc MAJOR PROJECT (BMEGEÁTMWD1)

Title: **Influence of the urban heat island on the flow field around a single building**

Author's name (code): **Konrád NÉMETH (MRMJ22)**
Curriculum : MSc in Mechanical Engineering Modelling / Fluid Mechanics

Supervisor's name, title: **Éva BERBEKÁR, PhD student**
Affiliation: Department of Fluid Mechanics / BME

Supervisor's name, title: **Dr. Gergely KRISTÓF, associate professor**
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Description / tasks of the project:

1. Literature overview of the measurement techniques of an Urban Heat Island (UHI)
2. Collection of the criteria of modelling an UHI and the flow around a building
3. Measurement arrangement plan to model an UHI
4. CFD simulation of the measurement
5. Construction of the measurement arrangement
6. Verifying measurements of the sufficiency of the measurement arrangement to model an UHI
7. Depending on the quality of the measurement arrangement and the vacancy of the NPL wind tunnel, measurements of the flow around a building during an UHI

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>..... Éva Berbekár supervisor</p>

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