

ASSIGNMENT

MSc MAJOR PROJECT (BMEGEÁTMWD1)

Title: **Preparation of Large-Eddy simulation of a swept wing**

Author's name (code): **Márton Gábor, NAGY (I08CDU)**
Curriculum: MSc in Mechanical Engineering Modelling / Fluid Mechanics
Curriculum's code: 2N-MW0-FM

Supervisor's name, title: László NAGY, assistant research fellow
Affiliation, address: Department of Fluid Mechanics / BME
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Advisor's name, title: -
Affiliation, address: -

Description / tasks of the project:

1. Research the previous studies carried out at the department and supplement it with literature from the research on swept wings.
2. Familiarization with the OpenFOAM software and creation of scripts for the swept wing case.
3. Create the 3D mesh of the swept wing and conduct RANS runs on it. Preparation for the LES runs.
4. Conduct a mesh independence study using the RANS model on the department's cluster.
5. Create a report with the acquired literature and results.

Handed out / Deadline: **10th of February 2014. / 16th of May 2014.**
Budapest, 10th of February 2014.

(L.S.)

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supervisor

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Dr. János VAD, associate professor
Head of Department

Received by:
Budapest, 10th of February 2014.

The undersigned declares that all prerequisite subjects of the Major Project have been fully accomplished. Otherwise, the present assignment for the Major Project and the subject's registration of BMEGEÁTMWD1 are considered to be invalid.

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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%;"> The proposed final grade* of the Project Report: </div> <p style="text-align: center; font-size: small;">* Please, select one: excellent (5), good (4), medium (3), acceptable (2), fail (1)</p>
Date:	Budapest, 16 th of May 2014.
Name / Signature:	<p style="text-align: center;">.....</p> <p style="text-align: center;">supervisor</p>

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