ASSIGNMENT

MSc MAJOR PROJECT (BMEGEÁTMWD1)

Title:	**CFD modelling of moving ground effect in the NPL wind tunnel**
Author's name (code):	**Balázs SZABÓ (ABC123)**
Curriculum:	MSc in Mechanical Engineering Modelling / Fluid Mechanics
Curriculum's code:	2N-MW0-FM
Supervisor's name, title:	Dr. Jenő Miklós SUDA assistant professor
Affiliation:	Department of Fluid Mechanics / BME
	H-1111 Budapest, Bertalan L. z. 4-6.
Advisor's name, title:	Tamás BENEDEK, PhD student
Affiliation:	Department of Fluid Mechanics / BME
	H-1111 Budapest, Bertalan L. z. 4-6.

Description / tasks of the project:

1. Review of the relevant literature of the vehicle aerodynamics CFD studies with moving ground simulation.

2. Develop the 3D geometrical model for CFD (ANSYS-Fluent) of the test section in the NPL type wind tunnel.

3. Review and evaluate the possibilities of extension of the 3D model with the moving ground effect.

4. Develop various 3D models that are capable for CFD study of the boundary layer control.

5. Summarise your results in a project report and presentation.

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

Budapest, 11th of February 2013.

……………………………….. …………………………………….
(L.S.)   supervisor   Dr. János VAD, associate professor
                                                    Head of Department

Received by:
Budapest, 11th of February 2013.

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.

……………………………….
student

Budapest University of Technology and Economics
Faculty of Mechanical Engineering
Department of Fluid Mechanics

Hungary, 1111 Budapest, Bertalan L. u. 4-6.
Telefon: (36-1) 463-4072 Fax: (36-1) 463-3464
http://www.ara.bme.hu