Budapest University of Technology and Economics

Faculty of Mechanical Engineering

Department of Fluid Mechanics

http://www.ara.bme.hu/

FINAL PROJECT ASSIGNMENT

Publicly Available

Identification

Name: **Bőhm Attila**	ID: **74335595295**

Code of the Curriculum: 2N-MW0	Specialisation:	Document ref. number:
Curriculum: Master Program in Mechanical Engineering Modelling	2N-MW0-FM	GEÁT:2021-T:2N-MW0:U45PFN

Final Project issued by:	Final exam organised by:
Department of Fluid Mechanics	Department of Fluid Mechanics

Supervisor: Éva Balla Esztella (73727725349), senior lecturer

Project Description

Title

Aerodynamic investigation of cambered plate blade models

Ívelt lemezlapát modellek aerodinamikai vizsgálata

Details

The tasks of Master Thesis Project A:

1. Conduct a literature review regarding the topic

2. Create a 2D mesh in ICEM CFD

3. Run simulations with various parameters

4. Evaluate the simulations from an aerodynamic point of view

5. Summarize the work in the required document format of the MSc Thesis!

The tasks of Master Thesis Project B:

1. Create 2D mesh for various geometries

2. Run the simulations at various inlet velocities

3. Evaluate the simulations from an aerodynamic point of view

4. Compare the results with literature data

5. Summarize the work in the required document format of the MSc Thesis

Advisor

Advisor's Affiliation:

Advisor: —

Final Exam

1st subject (group)	2nd subject (group)	3rd subject (group)	4th subject (group)
ZVEGEÁTNW02 Computational Fluid Dynamics	**ZVEGEÁTNW03** Fluid Mechanics Measurements	**ZVEGEÁTNW08** Building and Environmental Aerodynamics	**ZVEGEÁTNW19** Vehicle Aerodynamics

Authentication

Handed out: 8 February 2021	Deadline: 14 May 2021	
Compiled by: Éva Balla Esztella (73727725349) Supervisor	Verified by: *Dr. János Vad* (signed) Head of Department	Approved by: *Dr. Péter Bihari* (signed) Vice-Dean

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

…………………………………………..

Bőhm Attila