



FINAL PROJECT ASSIGNMENT

Publicly Available

Identification	Name: Remenyik Balázs		ID: 79859473227	
	Code of the Curriculum: 2N-MW0	Specialisation:	Document ref. number:	
	Curriculum: Gépészeti modellezés mesterképzési szak	2N-MW0	GEÁT:2022-2:2N-MW0:AYFQ51	
	Final Project issued by: Department of Fluid Mechanics		Final exam organised by: Department of Fluid Mechanics	
Supervisor: Dr. Balogh Miklós (7142777405), assistant professor				

Project Description	Title	Analysis of an opening DRS in open-source software environment Nyíló DRS vizsgálata nyílt forráskódú szoftverkörnyezetben
	Details	<ol style="list-style-type: none">Literature survey on dynamic mesh in CFD and in OpenFOAMFamiliarization with OpenFOAMCreating or converting meshes for opening DRSSimulations with dynamic meshes using dynamic meshSimulations with dynamic meshes using overset meshEvaluation and comparison of the results (comparison with former CFD results)Optionally: 3D DES simulations and 2D comparisons considering new F1 rules in 2022 and different configurationsSummarizing the results in the thesis according to the formal requirements
	Advisor	Advisor's Affiliation: -- Advisor: --

Final Exam	1 st subject (group)	2 nd subject (group)	3 rd subject (group)	4 th subject (group)
	ZVEGEÁTNW02 Computational Fluid Dynamics	ZVEGEÁTNW03 Fluid Mechanics Measurements	ZVEGEÁTNW19 Vehicle Aerodynamics	ZVEGEÁTNW11 Open Source Computational Fluid Dynamics

Authentication	Handed out: 14 February 2022		Deadline: 20 May 2022			
	Compiled by: Dr. Balogh Miklós (7142777405) Supervisor		Verified by: <i>Dr. János Vad (signed)</i> Head of Department		Approved by: <i>Dr. Gábor Györke (signed)</i> 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. <i>Remenyik Balázs</i>					