



FINAL PROJECT ASSIGNMENT

CLASSIFIED

Identification	Name: Pashayev Ramil		ID: 73353718560	
	Code of the Curriculum: 2NAMW0		Specialisation:	Document ref. number:
	Curriculum: Master Program in Mechanical Engineering Modelling		2NAMW0-FM	GEÁT:2020-1:2NAMW0:T4WG91
	Final Project issued by: Department of Fluid Mechanics		Final exam organised by: Department of Fluid Mechanics	
	Supervisor: Dr. Tamás Benedek (76511246251), assistant professor			

Project Description	Titée	CFD Study of Pump Air Entrainment Szivattyú légbeszívás CFD szimulációja
	Details	<ol style="list-style-type: none">1. Overview of the literature special regards on pump air entrainment and its CFD simulation!2. Based on the literature overview, prepare the CFD model of a well-documented air entrainment case study.3. Perform CFD simulations in order to find the best simulation setup!4. Prepare the CFD model of Flowserve's air entrainment test equipment!5. Perform CFD simulations on the prepared model!6. Evaluate the results, and summarize the work in the required document format!
	Advisor	Advisor's Affiliation: Flowserve Hungary Services Kft 4028 Debrecen, Vágóhíd utca 2. Advisor: Frank Visser, engineer

Final Exam	1 st subject (group)	2 nd subject (group)	3 rd subject (group)	4 th subject (group)
	ZVEGEÁTMW02 Computational Fluid Dynamics	ZVEGEÁTMW03 Flow Measurements	ZVEGEÁTMW08 Building Aerodynamics	ZVEGEÁTMW19 Aerodynamics and Its Application for Vehicles

Authentication	Handed out: 15 September 2020		Deadline: 11 December 2020			
	Compiled by: Dr. Tamás Benedek (76511246251) Supervisor		Verified by: <i>Dr. János Vad (signed)</i> Head of Department		Approved by: <i>Dr. Péter Bihari (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>Pashayev Ramil</i>					