

Department of Fluid Mechanics

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FINAL PROJECT ASSIGNMENT

CLASSIFIED

	Name	e: Pintér András	ID: 78439315166			
Identification	Code of the Curriculum: 2N-MW0		Specialisation:	Document ref. number:		
	Curriculum: Gépészeti modellezés mesterképzési szak		2N-MW0-FM	GEÁT:2023-1:2N-MW0:NJTXXY		
	Final Project issued by:		Final exam organised by:			
Idei	Department of Fluid Mechanics		Department of Fluid Mechanics			
Γ	Super	visor: Dr. Kristóf Gergely János (71957915589)), associate professor			
Project Description	Title	Predictive analytics of a vacuum pump using machine learing Vákuumszivattyú prediktiv elemzése gépi tanulással				
	Details	 Get acquainted with the vacuum pump's technological environment and the available dataset Make a literature review about the machine learning methods applicable for predictive analytics Get to know the general functioning of the vacuum pump, and its possible forms of failure Based on the logged data of the pump's control system, investigate the possibility of automatic failure prediction Present the results, and propose possible next steps which could help the company reach its goal with the project Prepare the MSc thesis according to the formal requirements 				
	Advisor	Advisor's Affiliation: Flowserve Pte Ltd. 637345 Singapore, Tuas Loop 10. Advisor: Ravi TIWARI, R&D Engineer				

_	1 st subject (group)	ject (group) 2 nd subject (group) 3 rd subject (grou		4 th subject (group)
Final Exam	ZVEGEÁTNW02 Computational Fluid Dynamics	ZVEGEÁTNW03 Fluid Mechanics Measurements	ZVEGEÁTNW08 Building and Environmental Aerodynamics	ZVEGEÁTNW22 Aero-Elasticity

	Handed out: 5 September 2022		Deadline: 9 December 2022		
	Compiled by:	Verified by:		Approved by:	
u	Dr. Kristóf Gergely János (71957915589) Supervisor	<i>Dr. János Vad</i> (signed) Head of Department		<i>Dr. Gábor Györke</i> (signed) Vice-Dean	
Authentication	The undersigned declares that all prerequisites of the Final have been fully accomplished. Otherwise, the present assignm the Final Project is to be considered invalid.				