



FINAL PROJECT ASSIGNMENT

Publicly Available

Identification	Name: Zhang Haitian		ID: 73348055144	
	Code of the Curriculum: 2NAMW0		Specialisation:	Document ref. number:
	Curriculum: Master Program in Mechanical Engineering Modelling		2NAMW0-FM	GEÁT:2020-1:2NAMW0:JWH8V0
	Final Project issued by: Department of Fluid Mechanics		Final exam organised by: Department of Fluid Mechanics	
	Supervisor: Dr. Csaba Horváth (71949162105), assistant professor			

Project Description	Titée	Further development of the ROSI beamforming method for the investigation of turbomachinery investigated at an angle ROSI nyalábformálási módszer továbbfejlesztése szögben lévő forgógépek vizsgálatára
	Details	<ol style="list-style-type: none"> Literature survey regarding beamforming methods, with emphasis on those which are relevant for tur-bomachinery applications Understanding the standard time domain beamforming method Understanding the ROSI beamforming method Further development of the ROSI beamforming method for the investigation of turbomachinery investi-gated from an angle in a Matlab environment. Testing, debugging, and further development of the code with the help of virtual noise sources. Testing, debugging, and further development of the code with the help of real noise sources. Summary of the work as required in the course description
	Advisor	Advisor's Affiliation: -

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	ZVEGEVGMW07 Flow stability	ZVEGEVGMW08 Theoretical Acoustics

Authentication	Handed out: 15 September 2020		Deadline: 11 December 2020		
	Compiled by: Dr. Csaba Horváth (71949162105) 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>Zhang Haitian</i>				