



# FINAL PROJECT ASSIGNMENT

**Publicly Available**

Identification	Name: <b>Tadros Mario Magdy Tadros Aziz</b>		ID: 73360952008	
	Code of the Curriculum: 2NAAG0		Specialisation:	Document ref. number:
	Curriculum: Bachelor of Science Degree Program in Mechanical Engineering		2NAAG0-PE	GEÁT:2023-1:2NAAG0:QW25SR
	Final Project issued by: Department of Fluid Mechanics		Final exam organised by: Department of Hydrodynamic Systems	
Supervisor: Dr. Horváth Csaba (71949162105), associate professor				

Project Description	Title	<b>Application of Acoustically Transparent Duct Technology in a Centrifugal Fan Investigation</b> Akusztikailag átlátszó cső technológia alkalmazása egy centrifugális ventilátor esettanulmányon
	Details	1. Review of the literature regarding centrifugal fan noise sources. 2. Review of the literature regarding beamforming technology. 3. Review of the literature regarding Acoustically Transparent Duct (ATD) Technology. 4. Carry out preliminary tests on a centrifugal fan (can be another radial fan): carry out measurements using beamforming technology, process the data, draw conclusions
	Advisor	Advisor's Affiliation: Dept. Fluid Mechanics, Fac. Mech Eng, Budapest University of Technology and Economics 1111 Budapest, Bertalan Lajos u. 4-6. Advisor: Tokaji Kristóf, research engineer

Final Exam	1 <sup>st</sup> subject (group)	2 <sup>nd</sup> subject (group)	3 <sup>rd</sup> subject (group)
	<b>ZVEGEVGAGFM</b> Fluid Machinery	<b>ZVEGEÉEBG51</b> Transfer Processes	<b>ZVEGEVGBG13</b> Fluid Flow Technology

Authentication	Handed out: 5 September 2022		Deadline: 9 December 2022			
	Compiled by: Dr. Horváth Csaba (71949162105) Supervisor		Verified by: Dr. János Vad (signed) Head of Department		Approved by: Dr. Gábor Györke (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.  ..... Tadros Mario Magdy Tadros Aziz					