



# FINAL PROJECT ASSIGNMENT

**Publicly Available**

<b>Identification</b>	Name: <b>Sittlington Ryan</b>		ID: <b>73493428343</b>	
	Code of the Curriculum: <b>2NAAG0</b>		Specialisation:	Document ref. number:
	Curriculum: Bachelor of Science Degree Program in Mechanical Engineering		<b>2NAAG0-PE</b>	<b>GEÁT:2024-1:2NAAG0:H92W5U</b>
	Final Project issued by: Department of Fluid Mechanics		Final exam organised by: Department of Fluid Mechanics	
	Supervisor: <b>Kocsis Bálint (73577012470)</b> , assistant research fellow			

<b>Project Description</b>	<b>Title</b>	<b>Applying a deconvolution beamforming method to rotating noise sources</b> Dekonvolúciós nyálábformálási módszer alkalmazása forgó zajforrásokra
	<b>Details</b>	1)Literature research on the following topics: 1.1)Turbomachinery noise 1.2)Conventional- and rotating beamforming methods 1.3)Deconvolution methods 2)Getting familiar with the beamforming code used by the Department of Fluid Mechanics 3)Implementation of a deconvolution method in the departmental beamforming codes and validation of the correct working of the developed codes 4)Measurements: 4.1)Getting familiar with the acoustic measurement system available at the Department of Fluid Mechanics 4.2)Planning and performing measurements on rotating noise sources 4.3)Processing the acquired measurement data using the developed beamforming codes 5)Summarizing the work of the semester in the BSc Thesis
	<b>Advisor</b>	Advisor's Affiliation:  Advisor: --

<b>Final Exam</b>	1 <sup>st</sup> subject (group)	2 <sup>nd</sup> subject (group)	3 <sup>rd</sup> subject (group)
	<b>ZVEGEVGBX01</b> Fluid Machinery	<b>ZVEGEÉEBG51</b> Transfer Processes	<b>ZVEGEENBGE B</b> Energy Management

<b>Authentication</b>	Handed out: 4 September 2023		Deadline: 8 December 2023			
	Compiled by: Kocsis Bálint (73577012470) 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.  ..... <i>Sittlington Ryan</i>					