Budapest University of Technology and Economics
Faculty of Mechanical Engineering
Department of Fluid Mechanics
http://www.ara.bme.hu/

FINAL PROJECT ASSIGNMENT

Publicly Available

Identification	Name: **Stadler Elizabet**		ID: **73604298569**
	Code of the Curriculum: 2N-MW0	Specialisation: 2N-MW0	Document ref. number: GEÁT:2022-2:2N-MW0:GG5GQV
	Curriculum: Gépészeti modellezés mesterképzési szak		
	Final Project issued by: Department of Fluid Mechanics	Final exam organised by: Department of Fluid Mechanics	
	Supervisor: Dr. Kalmár-Nagy Tamás (71567010352), associate professor		

Project Description	Title	**Experimental and computational determination of lift and turbulence generated by drones** Drónok által generált felhajtóerő és turbulencia meghatározása kísérlettel és számítással
	Details	1. Detailed literature survey and analysis of relevant resources of technical literature 2. Measurement of blade lift coefficients with wind tunnel measurements 3. Creating a safety protocol for wind tunnel drone testing and implementing safety features 4. Creating a platform design for wind tunnel drone tests 5. Measurement of turbulence generated by moving quadrotor blades investigated in the departmental wind tunnels with PIV (Particle Image Velocimetry) method and with the help of CFD (Computational Fluid Dynamics) 6. Summarize the work in the required document format of the MSc Thesis
	Advi-sor	Advisor's Affiliation: -- Advisor: --

Final Exam	1st subject (group)	2nd subject (group)	3rd subject (group)	4th subject (group)
	ZVEGEÁTNW02 Computational Fluid Dynamics	**ZVEGEÁTNW03** Fluid Mechanics Measurements	**ZVEGEÁTNW08** Building and Environmental Aerodynamics	**ZVEGEVGMW08** Theoretical Acoustics

Authentication	Handed out: 14 February 2022		Deadline: 20 May 2022
	Compiled by: Dr. Kalmár-Nagy Tamás (71567010352) 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. …….. *Stadler Elizabet*		