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: **Mosoni Anna**			ID: **73021299160**
Code of the Curriculum: 2N-MW0		Specialisation: 2N-MW0-DT	Document ref. number: GEÁT:2023-2:2N-MW0:MTJQEP
Curriculum: Gépészeti modellezés mesterképzési szak			
Final Project issued by: Department of Fluid Mechanics		Final exam organised by: Department of Machine and Product Design	
Supervisor: Dr. Suda Jenő Miklós (71958230447), assistant professor			

Project Description		
Title	**Design of an Interactive Board Showcasing the Operation of the Göttingen Type Horizontal Wind Tunnel at the Department of Fluid Mechanics** Az Department of Fluid Mechanics Göttingeni típusú vízszintes szélcsatornájának működését bemutató interaktív tábla tervezése	
Details	1) Overview of the technical and ergonomic requirements of the interactive board. 2) Review of the available solutions for similar interactive boards. Summary of present goals. 3) Plan the interactive board creation process. Select the devices, materials, manufacturing methods, etc. 4) Modify the 3D CAD geometry available for the wind tunnel laboratory to fit the requirements. 5) Perform 3D CFD modelling of the modified (scaled-down) geometry. 6) Evaluate the CFD results regarding the design of the physical model. 7) Select and supervise the purchasing process of the additional components (e.g. fan and other devices). 8) Prepare and supervise the 3D printing manufacturing process of the elements. 9) Assemble parts of the interactive board. 10) Summarise the results in the required format of the MSc thesis.	
Advisor	Advisor's Affiliation: Advisor:	

Final Exam	1st subject (group)	2nd subject (group)	3rd subject (group)
	ZVEGEGENWPM Product Modelling	**ZVEGEGTNWAM** Advanced Manufacturing	**ZVEGEGINWCT** CAD Technology

Authentication			
Handed out: 27 February 2023		Deadline: 2 June 2023	
Compiled by: Dr. Suda Jenő Miklós (71958230447) 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. …….. *Mosoni Anna*			