

Faculty of Mechanical Engineerin

Department of Fluid Mechanics http://www.ara.bme.hu/

FINAL PROJECT ASSIGNMENT

Publicly Available

	Name	: Liu Jianxin	ID: 7	ID: 73352281820				
Identification	Code	of the Curriculum: 2NAMW0	Specialisation:	Document ref. number:				
	Curriculum: Master Program in Mechanical Engineering Modelling		2NAMW0-FN	∫ GEÁT:2020-1:2NAMW0:R63D2Y				
	Final Project issued by:		Final exam organised by:					
		Department of Fluid Mechanics	Department of Fluid Mechanics					
	Supervisor: Dr. Joshua Patrick Davidson (71569852589), tudományos munkatárs							
Project Description	tée	Modelling of a Wave Flume in ANSYS Fluent						
	Ti	Hullámcsatorna modellezése ANSYS Fluent szimulációs környezetben						
	Details	 Literature survey - surveying and analysing relevant resources of technical literature Geometry and mesh generation Replicate the geometry of the wave flume from the experiment in Plymouth University; b. Create a mesh for the wave flume Perform a mesh convergence study Moving wall wave maker 						
	Advisor	Advisor's Affiliation:						

_	1 st subject (group)	2 nd subject (group)	3 rd subject (group)	4 th subject (group)
Final Exan	ZVEGEÁTMW02 Computational Fluid Dynamics	ZVEGEÁTMW03 Flow Measurements	ZVEGEÁTMW08 Building Aerodynamics	ZVEGEVGMW06 Hemodynamics

	Handed out: 15 September 2020			Deadline: 11 December 2020		
Authentication	Compiled by:		Verified by:		Approved by:	
	Dr. Joshua Patrick Davidson (71569852589) Supervisor		Dr. János Vad (signed)		Dr. Péter Bihari (signed)	
			Head of Department		Vice-Dean	
	The undersigned declares that all prerequisites of the Final have been fully accomplished. Otherwise, the present assigns the Final Project is to be considered invalid. 					