**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: **Omrani Mohammadreza** | | | ID: **73118580326** |
| Code of the Curriculum: 2NAAG0 | | Specialisation: 2NAAG0-PE | Document ref. number: GEÁT:2022-1:2NAAG0:XDSNPO |
| Curriculum: Bachelor of Science Degree Program in Mechanical Engineering | | | |
| Final Project issued by: Department of Fluid Mechanics | | Final exam organised by: Department of Fluid Mechanics | |
| Supervisor: Dr. Esztella Éva Balla (73727725349), senior lecturer | | | |

| Project Description | | |
|---|---|---|
| Title | **Relationship between the momentum thickness and drag coefficient of blade sections**<br>Lapátmetszetek impulzus vastagsága és ellenállástényezője közötti kapcsolat | |
| Details | 1. Conduct a literature review regarding the topic<br>2. Create the geometry of the blade sections and run 2D simulations<br>3. Compare the simulation results with available literature data<br>4. Investigate the relationship between the momentum thickness and the drag coefficient<br>5. Summarize your work in the required document format of the BSc Thesis! | |
| Advi-sor | Advisor's Affiliation:<br>Advisor: — | |

| Final Exam | | | |
|---|---|---|---|
| 1st subject (group) | 2nd subject (group) | 3rd subject (group) | 4th subject (group) |
| **ZVEGEÉEAG06**<br>Vegyipari eljárások és berendezések | **ZVEGEVGAGFF**<br>Fluid Flow Systems | **ZVEGEVGAG4X**<br>Volumetric Pumps and Compressor | |

| Authentication | | | |
|---|---|---|---|
| Handed out: 6 September 2021 | | Deadline: 10 December 2021 | |
| Compiled by:<br>Dr. Esztella Éva Balla (73727725349)<br>Supervisor | Verified by:<br>*Dr. János Vad* (signed)<br>Head of Department | Approved by:<br>*Dr. Gábor Györke* (signed)<br>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.<br><br>……..<br>*Omrani Mohammadreza* | | | |