

I. IDENTIFICATION DATA

Thesis title:	EQUIPMENT FOR REHEATING A COFFEE CUP BY INDUCTION HEATING
Author's name:	Darshil Patel
Type of thesis :	bachelor
Faculty/Institute:	Faculty of Mechanical Engineering (FME)
Department:	Department of Instrumentation and Control Engineering
Thesis reviewer:	Ing. Lubomír Musálek
Reviewer's department:	Department of Instrumentation and Control Engineering

II. EVALUATION OF INDIVIDUAL CRITERIA

Assignment	challenging
<i>How demanding was the assigned project?</i>	
The work is challenging enough.	

Fulfilment of assignment	fulfilled
<i>How well does the thesis fulfil the assigned task? Have the primary goals been achieved? Which assigned tasks have been incompletely covered, and which parts of the thesis are overextended? Justify your answer.</i>	
The assignment has been fulfilled.	

Activity and independence when creating final thesis	A - excellent.
<i>Assess whether the student had a positive approach, whether the time limits were met, whether the conception was regularly consulted and whether the student was well prepared for the consultations. Assess the student's ability to work independently.</i>	

Technical level	A - excellent.
<i>Is the thesis technically sound? How well did the student employ expertise in his/her field of study? Does the student explain clearly what he/she has done?</i>	
In his bachelor thesis, the student combined design, theoretical calculation and implementation of prototypes. The student first described the theoretical field used (electromagnetic, thermal) and then calculated using FEM the results for the given arrangement. For this reason I consider the technical difficulty of the work to be high .	

Formal level and language level, scope of thesis	B - very good.
<i>Are formalisms and notations used properly? Is the thesis organized in a logical way? Is the thesis sufficiently extensive? Is the thesis well-presented? Is the language clear and understandable? Is the English satisfactory?</i>	
The work contains a minimum of grammatical errors. The work is readable and well divided into chapters and paragraphs.	

Selection of sources, citation correctness	A - excellent.
<i>Does the thesis make adequate reference to earlier work on the topic? Was the selection of sources adequate? Is the student's original work clearly distinguished from earlier work in the field? Do the bibliographic citations meet the standards?</i>	
The student used 60 citations. The citation are according to the ISO 690: 2011 standard.	

Additional commentary and evaluation (optional)
<i>Comment on the overall quality of the thesis, its novelty and its impact on the field, its strengths and weaknesses, the utility of the solution that is presented, the theoretical/formal level, the student's skillfulness, etc.</i>
Please insert your comments here.



III. OVERALL EVALUATION, QUESTIONS FOR THE PRESENTATION AND DEFENSE OF THE THESIS, SUGGESTED GRADE

The student has completed the assignment. He designed, modelled and realised a test prototype of an induction heater for heating up a coffee cup. The work combined thermal and electromagnetic fields and their association. The student worked independently, only in the implementation he had to be helped by the supervisor. However, he eventually learned to do this himself. There are grammatical errors and minor inaccuracies in the paper. I recommend the thesis for defence.

The grade that I award for the thesis is **A - excellent**.

Date: **1.9.2022**

Signature: