



## THESIS EVALUATION OPONENT EVALUATION

Author name: Monish Raghav Poorna Chandran, B.Eng.

Thesis title: Temperature chamber with Peltier cell

Opponent: Ing. Josef Petřvalský

Opponent workplace: ESY Liberec s.r.o.

- A. Abstract quality, keywords matching..... Excellent (1)
- B. Research scope and processing ..... Very good (2)
- C. Level of theoretical part ..... Excellent (1)
- D. Appropriateness of the methods..... Excellent (1)
- E. Results elaboration and discussion ..... Excellent (1)
- F. Students own contribution ..... Very good (2)
- G. The conclusion statement..... Excellent (1)
- H. Fulfillment of Thesis tasks (goals)..... Fulfilled
  - I. Structure, correctness and fulness of references..... Excellent (1)
  - J. Typographical and language level..... Excellent (1)
  - K. Formal quality..... Excellent minus (1-)  
(text structure, chapters order, clarity of illustrations)

Comments, remarks:

... continue on page 2



Overall assessment:

The thesis is easily understood and I was satisfied with the content. The Peltier cell is in recent past very useful device for many industries. Using it for cooling during transportation of medical substances is a clever idea and there are plenty of articles on this subject. As was researched through design and experimentally verified in this thesis, using the Peltier cell for cooling medical substances is possible, also including with feedback via a Bluetooth device.

Questions for the defense:

1. Have you considered other materials than Polystyrene for thermal insulation of the walls of the prototype - which one?
2. Does your Simulation model have the option for changing the thermal insulation material?
3. How would you improve your Simulation system and the prototype?

**Overall classification and recommendation:**

Work meets the Master degree requirements and therefore I recommend it for the defense. I suggest to classify this work by grade: Excellent minus (1-)

By signing I certify that I am not in any personal relationship with the author of the thesis

In Liberec

date 29.02.2025

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Opponent signature