CZECH UNIVERSITY OF LIFE SCIENCES PRAGUE

Faculty of Engineering

Evaluation of the Diploma Thesis by Opponent

The sis TitleThe design of the spraying equipment for UAV.Name of the studentSaheed Adekunle OjetimiThesis supervisorprof. Dr. Ing. František KumhálaDepartmentDepartment of Agricultural MachinesOpponentIng. Zdeněk Kvíz, Ph.D.		
Name of the student Saheed Adekunle Ojetimi		
Thesis supervisor prof. Dr. Ing. František Kumhála	2	
Department Department of Agricultural Machines	6	
Opponent Ing. Zdeněk Kvíz, Ph.D.	m	
Theme of the thesis and its significance	1 2 3	3 4
Formulation of objectives	1 2 3	8 4
Choice of appropriate methods and methodology used	1 2 3	8 4
Work with data and information	1 2 3	8 4
Overall approach and work with data and information	1 2 3	8 4
Theoretical background of an author	1 2 3	8 4
The structure of paragraphs and chapters	1 2 3	8 4
Work with scientific literature (quotations, norms)	1 2 3	8 4
Skill level of language used	1 2 3	3 4
Clarity and professionalism of expression in the work	1 2 3	8 4
Formal presentation of the work, the overall impression	1 2 3	8 4
Fulfillment of objectives	1 2 3	8 4
Formulation of conclusions	1 2 3	8 4
Professional contribution of the work and its practical usage	1 2 3	3 4
Summary and key-words comply with the content of the thesis	1 2 3	8 4
Evaluation of the work by grade (1, 2, 3, 4)		3

Evaluation: 1 = the best

Date 06/05/2024

el. signed by Ing. Zdeněk Kvíz, Ph.D. on 06/05/2024 11:09 Signature of Opponent

Other comments or suggestions:

The Theme of the Diploma Thesis is really up-to-date.

Student wrote the literature review which should be longer and more detailed to describe assigned topic of the thesis.

Text contains some grammatical errors and inaccuracies. I would propose to implement better explanatory pictures to the text.

The thesis does not have a good structure and sometimes is quite chaotic.

In the part, where the student should have proposed its own spraying device for a drone, there are many general information. I would like to see more concrete information and more detailed own technical proposals.

Evaluation and Conclusions part of the thesis do not fulfill the aim and the student's contribution to the assigned topic. I do not find any novelty coming from the student work.

Questions for thesis defence:

- 1. Describe types of drones which have potential for use in agriculture from the power-drive point of view.
- 2. What is the biggest pay-load possible for a drone used in agriculture for spraying or fertilizing at the present.
- 3. How big can be the acreage-performance of a one drone used in agriculture for spraying or fertilizing at the present.

4. Page 22 shows the Figure 4 – it is the part: "Design Proposal of a Spraying Device for a Drone". Why the picture shows two Pumps and further in the text student describes and discuss own proposal with only one Pump?

1906

Date 06/05/2024

el. signed by Ing. Zdeněk Kvíz, Ph.D. on 06/05/2024 11:09 Signature of Opponent