

BACHELOR THESIS SUPERVISOR REVIEW

I. PERSONAL AND STUDY DETAILS

Student's name:	Ivaneishvili Luka
Faculty:	Faculty of Biomedical Engineering
Study program:	Biomedical and Clinical Technology
Branch of study:	Biomedical Technician

Personal ID number: 491342

II. EVALUATION OF THE BACHELOR THESIS

An	alysis of the connection between a high-frequency jet and a CPAP ventilator				
	Evaluation criteria	N. of points			
L.	Attitude of the student (preparation, initiative, work morale and independence). $(0 - 30)^*$				
	Full points can be given to a student who had a long-term, systematic and independent approach to the bachelor thesis with a clear vision of the solution. Supervisor of the bachelor thesis can decrease the number of points in case of insufficient activity, unsystematic work which was not conceptual and if the student was looking for the easiest solution.				
•	Manner and level of elaboration of the thesis and fulfilment of the assignment. $(0 - 30)^*$	23			
	Consider creative attitude as well as the ability to look for professional resources. Give full number of points if the theoretical part of the bachelor thesis is of a high level and corresponds with the requirements of the practical part. In case of insufficiency of the theoretical part, decrease the rating by up to 15 points. In case of insufficiency of the practical part, decrease the rating by up to 15 points.				
•	Scope of experimental work (SW, HW), applied knowledge, publications and other activities, including awards connected with the topic of the thesis. (0 - 30)*	23			
	Maximum number of points can be granted to a thesis which is fit for publishing. This aspect is judged with respect to enhancement of theoretical knowledge and practical implications. Creation of a model, SW or technical realization is valued. For minor methodological flaws, the assessment is reduced by up to 5 points. Inconsistency of elaboration with the theoretical background and unclear or not fully professional approach leads to a reduction by at least 15 points. Another decrease can be due to insufficient discussion. A total of 30 points can be given to a very complex and flawless work, including other activities such as participation in scientific-research project or grant, active participation in the writing publications, patents and utility models.				
4.	Formal requisites and layout of the thesis (writing mastery, structuring, graphs, tables, citations in the text, list of references etc.). (0 – 10)*	7			
	Supervisor judges formal requisites with respect to rules of writing, attributes of final works i.e. text formatting, structure of the thesis, list of references, graphs and tables, manner of citation. 2 points are subtracted for each noncompliance. 2 - 4 points are subtracted for grammatical mistakes, spelling mistakes, improper stylistics and terminology. Only standard terminology should be used especially in the English language (ability to express oneself with the use of professional language should be judged - 2 points), if graphs are created according to the rules (see tolerance and influence of statistical processing - 2 points), if there are relevant captions for graphs and tables and that everything is readable (2 points), citation rules ISO690 and ISO690-2 are observed (2 points).				
	Total points	76			

III. THE OVERALL ASSESSMENT OF THE LEVEL OF THE BACHELOR THESIS

Grade**:	A (excellent)	B (very good)	C (good)	D (satisfactory)	E (sufficient)	F (failed)		
Number of points:	100 - 90	89 - 80	79 - 70	69 - 60	59 - 50	< 50		
			х					
** in case of F (failed) please explain in detail								

I give the above grade to the bachelor thesis and I recommend/do not recommend it for the defence.

IV. COMMENTS

The present work is devoted to the design and implementation of the connection of a high-frequency jet ventilator (HFJV) and a CPAP ventilator, which provides constant airway pressure in the respiratory system. The results of the bachelor thesis indicate the positive effect of the fluidic element (InfantFlow valve), which reduces the iWOB (Imposed Work of Breathing) under certain circumstances. The weakness of the work was time management. The results of this work are useful for further development activities in this area of HFJV development for clinical practice.

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Date: