

I. PERSONAL AND STUDY DETAILS

Student's name: **Mahamat Mahamat Idriss Hibba** Personal ID number: **483076**
 Faculty: **Faculty of Biomedical Engineering**
 Study program: **Biomedical and Clinical Technology**
 Branch of study: **Biomedical Technician**

II. EVALUATION OF THE BACHELOR THESIS

Bachelor's thesis title in English:

Sensing of the conization operation by the special kind of scanning devices

	Evaluation criteria	N. of points
1.	<p>Fulfillment of the aim of the thesis and suitability of the structure of the thesis with respect to the topic (compliance with the assignment). (0 - 30)*</p> <p>Any part or sentence of the bachelor thesis assignment has to be dealt with. The full amount of points can be given to the excellent thesis only. The points are reduced in relation to the part of the assignment which is not properly dealt with or is not included at all.</p>	18
2.	<p>Theoretical level and application of accessible sources. (0 - 30)*</p> <p>The reader evaluates the relevance of the theoretical part of the thesis with respect to the assignment and structuring of the ideas. If word-for-word citing prevails, the reader shall decrease the rating by 15 points. (of course if copyright is abided). Moreover, another reason for decreasing the overall assessment is insufficient amount of theoretical knowledge, references and sources.</p>	22
3.	<p>Scope of experimental work (SW, HW) and applied knowledge, quality of methodology and conclusions of the thesis. (0 - 30)*</p> <p>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.</p>	24
4.	<p>Formal requisites and layout of the thesis (writing mastery, structuring, graphs, tables, citations in the text, list of references etc.). (0 - 10)*</p> <p>Reader evaluates formal requisites according to the rules of writing, attributes of final works, i.e. text formatting, structure of the text, references, quality of charts and tables and citations. Number of points can be reduced for noncompliance with the rules by the maximum of 2 points for each disrespected attribute. Grammatical mistakes, spelling mistakes and improper stylistics and terminology decrease the evaluation by 2-4 points. Only standard terminology should be used, especially in the English language (it is necessary to judge the ability to use the technical language - 2 points), graph are according to the rules (see tolerance and the influence of statistical processing - 2 points), captions are included for graphs and tables and everything is readable (2 points), citation rules are complied with according to ISO690 and ISO690-2 (2 points).</p>	8
5.	Total points	72

* Verbal evaluation should be part of the Comments

III. PROPOSED QUESTIONS FOR THE DEFENSE (OPTIONAL)

1. What is the clinical significance of tracking the loop's trajectory before and after the conization in comparison to tracking during the conization?

2. Describe the basic principle of the image capturing using digital camera.

3.

IV. 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
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** 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.

V. COMMENTS

The Bachelor's thesis dealing with the scanning of the cervix during the conization using the digital cameras was well done. The theoretical part is mainly written as a general theory about the cervical cancer and conization rather than as the state of the art. In the practical part of the thesis, I rate positively creating the simulator of the cervix, where it is possible to do the experiments with the tracking the loop's trajectory during the conization. From the cameras' selection were chosen two cameras, which had met the conditions of performing the experiments with tracking the loop's trajectory. Making the loop's trajectory using Matlab was well done. The main required output of the thesis was recorded video file of the whole conization procedure. There are only four short videos of the loop pull available, recorded by the two selected digital cameras. I consider this output as an incomplete fulfillment of the aims. It is positive that the thesis has a clinical significance, because it provides a new approach of sensing the conization operation field.

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Signature:

Date: