

I. PERSONAL AND STUDY DETAILS

Student's name: **Ammari Mirna Jamal Yousef** Personal ID number: **483039**
 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 and processing of the image and video from colposcope during the conization

	Evaluation criteria	N. of points
1.	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.	26
2.	Manner and level of elaboration of the thesis and fulfilment of the assignment. (0 - 30)* 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.	25
3.	Scope of experimental work (SW, HW), applied knowledge, publications and other activities, including awards connected with the topic of the thesis. (0 - 30)* 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.	25
4.	Formal requisites and layout of the thesis (writing mastery, structuring, graphs, tables, citations in the text, list of references etc.). (0 - 10)* 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).	9
5.	Total points	85

* Verbal evaluation should be part of the Comments.

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
	<input type="checkbox"/>	X	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

** 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

Student Mirna Ammari chose the topic of her bachelor thesis because of her intrinsic motivation and interest in the subject.

During all the activities the student tried to use her already acquired knowledge and skills, especially the use of Matlab.

She came up with her own ideas and solutions to the problems that arose. She tried to solve each problem. The student worked efficiently and reliably.

On a positive note, she tried to create multiple levels of processing complexity and even fully automatic processing of recorded video files. While it is true that this is not a completely universal solution, the student's approach should still be appreciated, especially because of her mastery of the advanced parts of advanced image processing.

In particular, I consider the creation of an anatomical phantom of the cervix and the implementation of experiments with different configurations with the subsequent evaluation of the trajectories of the movement of the instrument to be a contribution of the said bachelor's thesis, which will be used in related bachelor's and master's theses.

Thus, during the period when the student was working on her topic, complications arose due to the epidemiological limitations related to the COVID-19 disease and also other health problems for which she had to be hospitalized. These were also the reasons for requesting an extension of the submission deadline.

In spite of all these complications, the student completed her bachelor thesis according to the instructions in the assignment, although it was very time consuming and factually demanding.

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Signature:

Date: