

GI5000 Research Methodology and Innovation

Evaluation of Research Proposal

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Thesis proposal title: Development of a Microfluidic Platform for the Detection of Glucose

1.- Abstract	Bad 1 2 3 4 5 6 7 8 9 10 Excellent
2.- Introduction	Bad 1 2 3 4 5 6 7 8 9 10 Excellent
3.- Problem Definition and Justification	Bad 1 2 3 4 5 6 7 8 9 10 Excellent
4.- Objectives and scope	Bad 1 2 3 4 5 6 7 8 9 10 Excellent
5.- Hypothesis and research questions	Bad 1 2 3 4 5 6 7 8 9 10 Excellent
6.- Background and Theoretical Framework	Bad 1 2 3 4 5 6 7 8 9 10 Excellent
7.- Methodology	Bad 1 2 3 4 5 6 7 8 9 10 Excellent
8.- Work Plan	Bad 1 2 3 4 5 6 7 8 9 10 Excellent
9.- Title and General Structure	Bad 1 2 3 4 5 6 7 8 9 10 Excellent
10.-Bibliography	Bad 1 2 3 4 5 6 7 8 9 10 Excellent
Global	Bad 1 2 3 4 5 6 7 8 9 10 Excellent

Grade **9.15** /100

Compute (50% Points 1-10 and 50% Global)

Positive Comments on the Proposal

Keep the good work. All sections are complete and with the expected information. No mayor amendments are required (Most of the comments are observations).

Aspects to improve in the Proposal:

- 1) Avoid assumptions – in some statements, the author name (within cites) or some concepts are open to interpretation. Undeclared assumptions are prone to be misunderstood.
- 2) Implement 3rd person writing – 1st person writing can introduce a sense of informality to the document.
- 3) Use more figures to explain procedures and concepts - Figures can support descriptions and make the text easy to follow.

Additional Feedback:

Refer to the attached document; additional feedback and comments are posted there. Most comments are suggestions, hence, follow as you find appropriate.

Guidelines to conduct evaluation:

Abstract:

Does the abstract provide enough information about the problem, background, its context and proposed solution, and expected results? Does it establish the Graduate Program the student is enrolled in?

Introduction:

Does this section properly introduce the context, the problem, the background, the motivation, the proposed solution and the expected results? Is the organization of the document included in this section?

Problem definition and justification:

Does the proposal present the problematic situation and the specific problem to be solved? Does the problem description stress the technical details, the background, citations and challenges? Is the related bibliography properly stated?

Hypothesis and Research Questions:

Is the formulation of the hypothesis adequate? Do the research questions truly reflect the inquiries the researcher is going to follow to prove the hypothesis, and are also related to the objectives?

Objectives and scope:

Is the general objective properly stated in a paragraph? Are the specific objectives (subgoals) consistent and viable to fulfill the general objective?

Background and Theoretical Framework:

The background and fundamentals cited in the Introduction and Problem Definition are correctly used and fairly explained? Does this section include the problem fundamentals, the theories, tools or techniques to be used, and the related background to support the research? Is the section properly organized?

Methodology:

Does the methodology present the set of phases on the development of the project? Does each phase provide details on what to do, what to achieve, and what resources are needed?

Work plan:

Does the work plan include the various activities to be developed within the project? Does the timespan for each activity seem sufficient? Is there a clear explanation of the work plan, with important details such as duration, most important activities, overlapping activities, writing thesis, and thesis defense?

Title and proposal structure:

Does the title indeed reflect what is proposed in the document? Is the proposal structure properly organized? Does the structure used is close to the suggested format provided in the course?

References:

Are the references and citations satisfactorily used in the proposal? Is the number of references adequate? Are the references recent and reflect the state-of-the-art of the topic? Is there a proper balance on the type of references used (book, article, chapter, web, etc.)? Is the format consistent for the citing and references? Does each reference include the complete information?

Global evaluation:

Does the document present a quality proposal regarding both contents and format? Does the writing style is good?