

Appendix 1

Scoring Guide (Rubric) for Graduate Learning Outcome Assessment

Characteristics desired in a **MS DEFENSE EXAM**

Evaluation/Guidance
1. Problem Definition: Has stated the research problem clearly, providing rationale for undertaking the research.
2. Literature and Previous Work: Demonstrated sound knowledge of literature in the area and of prior work on the specific research problem.
3. Impact of Research: Demonstrated the potential value of solution to the research in advancing knowledge within the area of study.
4. Solution Approach: Has applied sound state-of-the-art research methods/tools to solve the defined problem and has described the methods/tools effectively.
5. Results: Analyzed and interpreted research results/data effectively.
6. Quality of Written Communication: Communicated research results clearly and professionally in written form.
7. Quality of Oral Communication: Communicated research results clearly and professional in oral form.
8. Critical Thinking: Has demonstrated capability for independent research in the area of study and expertise in the area.
9. Broader Impact: Demonstrated awareness of broader implications of the concluded research. Broader implications may include social, economic, technical, ethical, business, etc. aspects.
10. Publications: Journal or conference publications have resulted (or are anticipated) from this research.

Appendix 2

Characteristics desired in PhD ORAL PRELIMINARY EXAM

Evaluation/Guidance
1. Problem Definition: Has stated the research problem clearly, providing rationale for undertaking the research.
2. Literature and Previous Work: Demonstrated sound knowledge of literature in the area and of prior work on the specific research problem.
3. Impact of Research: Demonstrated the potential value of solution to the research in advancing knowledge within the area of study.
4. Solution Approach: Has applied sound state-of-the-art research methods/tools to solve the defined problem and has described the methods/tools effectively.
5. Results: Analyzed and interpreted research results/data effectively.
6. Quality of Written Communication: Communicated research results clearly and professionally in written form.
7. Quality of Oral Communication: Communicated research results clearly and professional in oral form.
8. Critical Thinking: Has demonstrated capability for independent research in the area of study and expertise in the area.
9. Broader Impact: Demonstrated awareness of broader implications of the concluded research. Broader implications may include social, economic, technical, ethical, business, etc. aspects.
10. Publications: Journal or conference publications have resulted (or are anticipated) from this research.

Appendix 3

Characteristics desired in PhD DISSERTATION DEFENSE EXAM

Evaluation/Guidance
1. Problem Definition: Has stated the research problem clearly, providing rationale for undertaking the research.
2. Literature and Previous Work: Demonstrated sound knowledge of literature in the area and of prior work on the specific research problem.
3. Impact of Research: Demonstrated the potential value of solution to the research in advancing knowledge within the area of study.
4. Solution Approach: Has applied sound state-of-the-art research methods/tools to solve the defined problem and has described the methods/tools effectively.
5. Results: Analyzed and interpreted research results/data effectively.
6. Quality of Written Communication: Communicated research results clearly and professionally in written form.
7. Quality of Oral Communication: Communicated research results clearly and professional in oral form.
8. Critical Thinking: Has demonstrated capability for independent research in the area of study and expertise in the area.
9. Broader Impact: Demonstrated awareness of broader implications of the concluded research. Broader implications may include social, economic, technical, ethical, business, etc. aspects.
10. Publications: Journal or conference publications have resulted (or are anticipated) from this research.

Appendix 4

To the Committee to fill out

Student: _____

Do you feel that the student was prepared?

Yes _____

No _____

Comments:

Do you feel the committee participated actively in advising the student about her/his research?

Did _____

Could do better _____

Was not very helpful _____

Comments:

Any suggestion to the program that in the future could improve the student and members of the committee's experience?

No _____

Yes _____

Suggestions: