

ASSESSMENT PLAN

Doctorate Program in Computer Science

A. Program Name

Computer Science Department, College of Arts and Sciences. Doctorate Program in Computer Science.

B. Assessment Coordinator

M. H. Samadzadeh, Professor of Computer Science. Date: November 3, 2014.

C. Mission Statement

- To educate students in all program levels in order to provide them with the knowledge, interest, and ethics to become productive members of the computing profession.
- To pursue and to publicize research projects in computer science in order to extend the present state of knowledge in the computing field.
- To serve as an initial and continuing source of education in the field of computer science.

D. Student Learning Outcomes

E. Assessment Methods

F. Timeline

1. Has the capability and the background necessary to conduct short-term expository research in an assigned area	1. Doctorate rubric	1. At Diagnostic examination
2. Has had her/his research results published or accepted by peer-reviewed and refereed conferences or journals	2. Doctorate rubric	2. At Comprehensive examination
3. Reviews the literature in a way that a comprehensive understanding of the research in the area of study is demonstrated	3. Doctorate rubric	3. At Doctoral dissertation proposal presentation
4. Identifies research questions or problems pertinent to the field of study, providing a focus for making a significant contribution to the field	4. Doctorate rubric	4. At Doctoral dissertation proposal presentation
5. Gathers, organizes, analyses, and reports data using a conceptual framework appropriate to the research question and the field of study.	5. Doctorate rubric	5. At Doctoral dissertation defense
6. Interprets research results in a way that adds to the understanding of the field of study and relates the findings to teaching and learning	6. Doctorate rubric	6. At Doctoral dissertation defense
7. Communicates research results effectively in both written and oral forms using language appropriate to the field of study	7. Doctorate rubric	7. At Doctoral dissertation defense
8. Has established a productive research agenda that prepares the student to extend her/his research beyond graduate school	8. Doctorate rubric	8. At Doctoral dissertation defense

G. Using Results

All Doctoral students in computer science will be assessed at the time of their Diagnostic examination, Comprehensive examination, proposal presentation, and defense using the program assessment rubrics. The rubrics will be recorded, quantified, and analyzed by the designated departmental assessment coordinator. The assessment coordinator will also record and quantify the results of the employer surveys for industrial practice students. The coordinator will present these combined findings to the departmental Graduate Curriculum Committee. The committee will deliberate and come up with recommendations for curriculum changes to better support the desired student outcomes in terms of individual courses, research, and Doctoral dissertation advisement. The recommendations will in turn be presented to the departmental faculty for review. The recommended curriculum changes will be discussed and voted on at a regularly scheduled faculty meeting. If and where necessary, the changes approved by the departmental faculty will be put through the normal University course action process for eventual implementation.

DOCTORATE ASSESSMENT

Student Name: _____

Degree Phase	Degree Objective	(1) Marginal	(2) Adequate	(3) Competent	(4) Proficient	(5) Advanced	N/A
Diagnostic Examination	Has the capability and the background necessary to conduct short-term expository research in an assigned area.						
Comprehensive Examination	Has had her/his research results published or accepted for publication in peer-reviewed and refereed conferences or journals.						
Dissertation Proposal	Reviews the literature in a way that demonstrates a comprehensive understanding of the research in the area of study.						
	Identifies research questions or problems pertinent to the field of study in order to provide a focus for making a significant contribution to the field.						
Dissertation Defense	Gathers, organizes, analyses, and reports data using a conceptual framework appropriate to the research question and to the field of study.						
	Interprets research results in a way that adds to the understanding of the field of study and relates the findings to teaching and learning.						
	Communicates research results effectively in both written and oral forms using language appropriate to the field of study.						
	Has established a productive research agenda that prepares her/him to extend the research beyond graduate school.						

Completion Semester and Year: _____