Doctor of Philosophy in Engineering Program Assessment of Student Academic Achievement Objectives - CANDIDACY

This evaluation is to be completed by each member of the student's doctoral dissertation committee, upon completion of the **candidacy exam** (**research proposal**). Return copies of this form to the department secretary or the Doctoral Program Director.

Please **circle** the appropriate box in each row.

The objectives are to develop in the student:	Level of Achievement			
Objectives/Criteria for	Exemplary	Satisfactory	Unsatisfactory	
Evaluation				
 A deeper, more general, and m underlying related fields. 	ore fundamental understanding of th	e principles underlying a particular f	ield of study, as well as those	
 Depth of knowledge 	Student shows excellent	Student shows good	Student shows weak	
	understanding of fundamental	understanding of fundamental	understanding of fundamental	
	principles directly related to the	principles directly related to the	principles directly related to the	
	research.	research.	research.	
b. Breadth of knowledge	Student shows good	Student shows adequate	Student shows weak	
	understanding of related subjects.	understanding of related subjects.	understanding of related subjects.	
2. A familiarity with advanced	Student is competent in the most	Student is competent in	Student is competent in analytical	
methods of analysis and	advanced techniques needed for	techniques needed for research in	techniques, with little	
synthesis that are more	research in the field. Student can	the field. Student can accept or	understanding of the principles	
powerful and more generally	synthesize and integrate results	reject hypotheses.	underlying the techniques.	
applicable than those taught at	and relate them to hypotheses.		Student has difficulty addressing	
the undergraduate level.			hypotheses.	
3. The ability to independently	Student actively searches all	Student has read the literature	Student has read only some of the	
read and understand the	works directly and indirectly	related to the research and	literature related to the research.	
significance and limitations of	related to the research. Student	understands how the research fits		
the relevant literature.	can identify strengths and	into the literature.		
	limitations of various methods.			
4. The ability to formulate, initiat	e, and complete new and innovative	research projects that contribute to the	ne advancement of the field.	
a. Impact on advancement of	Work has the potential to have a	Work has the potential to have an	Work does not have the potential	
the field	strong impact on the field.	incremental impact on the field.	to have an impact on the field.	
b. Adequacy of the scope of	Work has examined many facets	Amount of work is adequate.	Amount of work is inadequate.	
the research	of the research.			

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c. Adequacy of	the depth of	Work deeply probes the	Work addresses the basic	Work addresses only the surface		
the research		principles behind the problem.	questions of the problem.	of the problem.		
d. Adequacy of		Student shows creativity in	Student contributes originality to	The student follows directions		
approach and		designing experiments and	designing experiments and	from his or her advisor.		
the research g	goals	formulations for the problem.	formulations.			
5. The ability to communicate effectively in written and oral form.						
a. Quality of the	writing style	Written sentences are complete	Writing is grammatically correct.	Writing contains grammatical		
		and grammatical, and they flow	Paragraphs and sentences may	errors.		
		together easily. Words are chosen	not flow together perfectly.			
		for their precise meanings.				
b. Organization	of the written	Proposal is logically organized	Proposal organization is clear.	Proposal is poorly organized.		
proposal		and easy to follow.				
c. Organization	of the	Presentation is clear, logical and	Listener can follow and	Presentation is poorly organized.		
presentation		organized. Listener can follow	understand the presentation.	Presentation jumps around from		
1		the line of reasoning. Pacing is	r	topic to topic.		
		correct for the audience.		r		
d. Clarity of lan	guage usage	Speaker is comfortable in front of	Grammatical errors and use of	Speaker is difficult to understand		
	56.	the group and can be heard by all.	slang are evident. Some sentences	or hear.		
		and group and can be nearer by ann	may be incomplete.			
e. Ability to ans	wer questions	Student answered questions	Student answered questions, but	Student had difficulty		
	wer questions	directly and clearly.	with some difficulty.	understanding questions and		
		directly and cicarry.	with some difficulty.	answering clearly.		
f. Quality of sli	des	Slides enhance the presentation	Slides are adequate for the	Slides are inadequate (writing too		
1. Quality of sin	405	and are prepared in a professional	presentation.	small, too much or too little		
		manner.	presentation.	information per slide).		
6. The ability to co						
a. Application-o		Research will have practical	Research may have practical	The practical application of the		
research	riciicu	*	• •	proposed research is unclear.		
	owy raccordh	applications that are clear.	applications. Research will involve some work	· · ·		
b. Interdisciplin	ary research	Research will require significant		Research will be completely		
		knowledge of, and interaction	or interaction with more than one	within one discipline.		
		with, more than one discipline	discipline.			

To be answered by the research advisor only:

Have any papers resulting from the proposal work been accepted for publication in a peer-reviewed journal? _	Yes _	No
Does the student have a master's degree?No		

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