

UNIVERSITY OF CENTRAL FLORIDA  
COLLEGE OF ENGINEERING

Department of Industrial Engineering and Management Systems  
Doctor of Philosophy Program

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| <u>Unit Mission</u>  | <u>Program Intended Outcome/Objective</u>                         | <u>Assessment Criteria and Procedures</u>  | <u>Assessment Results/Comments</u>   | <u>Use of Results</u>   |
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| The Department of Industrial Engineering and Management Systems is committed to preparing highly skilled researchers with broad knowledge of industrial engineering for careers in academia, industry, and government. | 1. Graduates are able to conduct high-quality, doctoral research. | 1a. At least 70% of graduates have published (as indicated by notice of acceptance) at least one refereed journal article related to their doctoral research within 2 years of graduation. | 1a. Based on faculty input, of the 9 PhD graduates from 1990 through 1995, 4 (44%) are known to have published a refereed journal article related to the doctoral research within 2 years of graduation. 2 (22%) are known to have none. | 1a. Criterion not met. While all doctoral research should be publishable, IEMS recognizes that there are a number of reasons why some research by PhD graduates is not published within two years of graduation: long review times at journals, the lengthy patent application process, and individual priorities. Some graduates may have no intention to publish their doctoral research because their employers do not value publications as universities do. IEMS will continue monitoring the post-graduation professional development of its PhD graduates. In addition to journal papers, other refereed papers, and research presentations, IEMS will also look at other measures, such as proposals, patents, research funding, tenure, promotions, and research supervision, as indicators of the research abilities of PhD graduates. Separate summaries |

will be maintained for graduates in academic and non-academic positions. Less emphasis will be placed on short-term results, i.e., those results achieved in the first two years after graduation.

1b. At least 80% of graduates have published (as indicated by notice of acceptance) at least one refereed paper related to their doctoral research within 2 years of graduation.

1b. Of the 9 PhD graduates from 1990 through 1995, 6 (67%) are known to have published at least one refereed paper related to their doctoral research within 2 years of graduation.

1b. Criterion not met. See *Use of Results* for 1a.

1c. At least 90% of graduates have made a presentation related to their doctoral research at a major professional meeting or conference within 2 years of graduation.

1c. Of the 9 PhD graduates from 1990 through 1995, 6 (67%) are known to have made at least one professional presentation related to their doctoral research within 2 years of graduation.

1c. Criterion not met. See *Use of Results* for 1a.

2. Graduates are successful in finding professional employment within one year of graduation.

2a. At least 80% of graduates seeking professional employment are employed or have accepted employment in a suitable professional capacity within one year of graduation.

2a. 4 survey responses were received from the 16 graduates from 1990 through 1996. All 4 (100%) of those responding are employed in industry or government.

2a. Criterion met. All PhD graduates responding to the survey are employed in suitable capacities.

2b. At least 50% of the graduates seeking academic positions secure such a position within one year of graduation.

2b. 3 PhD graduates from 1990 through 1996 are known to have taken academic positions within one year of graduation.

2b. It is not known whether this criterion has been met. IEMS is instituting a policy to provide supervised teaching experiences and guidance (on topics such as syllabus development, testing, and grading) for doctoral students who are interested in academic positions in the US and who meet departmental and accreditation criteria. The department has instituted a

procedure to keep track of the positions these instructors assume after graduation so that it can be determined whether this criterion is met in the future.

3. Graduates are satisfied with their academic program and their experience at UCF.

3a. Three years after graduation, at least 90% of graduates say that they are satisfied with their program and that they would recommend the program to a friend or relative. Specific comments about program strengths and weaknesses will be sought.

3a. One response was received from the 8 PhD graduates from the years 1990 through 1994. The respondent is very satisfied with the PhD program and would recommend the program to a friend, relative, or colleague.

3a. Criterion is met, but data is very limited. No program change warranted. Current assessment procedure to continue.

3b. At least 90% of graduation candidates say that they are satisfied with their program and that they would recommend the program to a friend or relative. Specific comments about program strengths and weaknesses will be sought.

3b. A response from the only graduation candidate indicates that the candidate is very satisfied with the PhD program and would recommend the program to a friend, relative, or colleague.

3b. Criterion is met, but data is very limited. No program change warranted. Current assessment procedure to continue.