

Program Name:	Mechanical Engineering	Completed by: Dr. Paul Lin, Department Chair
Department:	MS in Mechanical Engineering	Date: May 22, 2007 & graduate program dir.
		Evaluation Period: 5/17/2006 - 5/11/2007

Goal 1:

Knowledge of advanced engineering analysis and design tools

Outcome Measures	Research Completed	Findings	Review	Actions	Improvements
#1 This defense questionnaire for thesis committee faculty:	38 questionnaires were collected	Exemplary: 19 Satisfactory: 18 Unsatisfactory: 1	by GAC & Chair	No need for further actions	<i>Compared to last evaluation result (1/20/02 -10/15/03):</i> <i>(8/29/05 -5/16/06):</i> A little better
#2 Project questionnaire for project faculty:	None was collected (No students completed)				

The three levels of achievement are:

- (1) Exemplary: Student understands principles behind advanced analysis and design tools. **Score=3**
- (2) Satisfactory: Student is knowledgeable in some analysis and design tools. **Score=2**
- (3) Unsatisfactory: Student is unfamiliar with advanced techniques. **Score=1**

The average score is 2.47. The acceptable score for achieving the outcomes of this goal is 2.

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Goal 2:

The ability to use advanced engineering analysis and design tools to design practical problems

Outcome Measures	Research Completed	Findings	Review	Actions	Improvements
#1 Thesis defense questionnaire for thesis committee faculty:	38 questionnaires were collected	Exemplary: 19 Satisfactory: 18 Unsatisfactory:1	by GAC & Chair	No need for further actions	Compared to last evaluation result (1/20/02 -10/15/03): (8/29/05 -5/16/06): A little better
#2 Project questionnaire for project faculty:	None was collected (No students completed)				

The three levels of achievement are:

- (1) Exemplary: Student understands principles behind advanced analysis and design tools. **Score=3**
- (2) Satisfactory: Student is knowledgeable in some analysis and design tools. **Score=2**
- (3) Unsatisfactory: Student is unfamiliar with advanced techniques. **Score=1**

The average score is 2.47. The acceptable score for achieving the outcomes of this goal is 2.

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Goal 3:

The ability to access and use the literature in his or her field

Outcome Measures	Research Completed	Findings	Review	Actions	Improvements
#1 Thesis defense questionnaire for thesis committee faculty:	38 questionnaires were collected	Exemplary: 18 Satisfactory: 19 Unsatisfactory: 1	by GAC & Chair	Encourage students to do literature review online	<i>Compared to last evaluation result (8/29/05 -5/16/06):</i> Significantly better
#2 Project questionnaire for project faculty:	None was collected (No students completed)				

The three levels of achievement are:

- (1) Exemplary: Student understands principles behind advanced analysis and design tools. **Score=3**
- (2) Satisfactory: Student is knowledgeable in some analysis and design tools. **Score=2**
- (3) Unsatisfactory: Student is unfamiliar with advanced techniques. **Score=1**

The average score is 2.45. The acceptable score for achieving the outcomes of this goal is 2.

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Goal 4:

Communicate effectively in written and oral forms

Outcome Measures	Research Completed	Findings	Review	Actions	Improvements
#1 Thesis defense questionnaire for thesis committee faculty:	38 questionnaires were collected		by GAC & Chair	Gave a seminar on thesis writing guidelines and oral presentation	<i>Compared to last evaluation result (8/29/05 -5/16/06):</i>
Quality of the writing style		Exemplary:2; Satisfactory:32; Unsatisfactory:3 (Average=1.92)			Slightly worse
Organization of the written thesis		Exemplary:11; Satisfactory:22; Unsatisfactory:5 (Average=2.16)			Slightly worse
Organization of the presentation		Exemplary:12; Satisfactory:22; Unsatisfactory:7 (Average=2.29)			Better
Clarity of language usage		Exemplary:25; Satisfactory:10; Unsatisfactory:3 (Average=2.58)			Slightly better
Quality of slides		Exemplary:21; Satisfactory:14; Unsatisfactory:3 (Average=2.47)			Slightly worse
#2 Project questionnaire for project faculty					
Quality of the writing style					
Organization of the written report					

The three levels of achievement are:

- (1) Exemplary: Student understands principles behind advanced analysis and design tools. **Score=3**
- (2) Satisfactory: Student is knowledgeable in some analysis and design tools. **Score=2**
- (3) Unsatisfactory: Student is unfamiliar with advanced techniques. **Score=1**

The overall averaged score is 2.28. The acceptable score for achieving the outcomes of this goal is 2.

Conclusion:

1. The scores for goals 1 and 2 have slightly improved, which is a good sign.
2. Goal 3 is about accessing and using the literature in one's field. The score for achieving goal 3 has improved from averaged score of 2.21 to 2.45.
3. The score for goal 4 is acceptable, but it is the lowest among the four goals. The majority of our graduate students are international students. English writing is a common problem for them.
4. Overall, the M.S. Program of Mechanical Engineering has achieved the four goals set forth by the department.