

AOL Report Management Engineering Program Assessment (2015)

The Management Engineering (ME) Program pursues excellence in academic research based on great emphasis on scientific methodology and theoretical expertise.

The research areas include Accounting, Managerial Economics, Finance, Organization & Strategic Management, Marketing, IT Management, Operations Strategy & Management Science. Students in this program intensively learn various theories and analytical skills to be highly achieved scholars.

- Total Course: 37 (Spring, 2015:22 / Fall, 2015:15)
- Number of Graduate: 48 (Master: 31, Ph.D.: 17)
- Total Enrollment: Spring 203/ Fall 199
- Sample: 8~11 (15% of 48=7)
- Assessment Course:

Learning Goal 1	Qualification Exam - Sample: 11 (23% of Graduate 48)
Learning Goal 2	Defense of Dissertation
Learning Goal 3	- Sample: 8 (17 % of Graduate 48)
Learning Goal 4	Not evaluated

Overview of Assessment

Management Engineering Program Assessment: Learning Goal 1		
Our graduates will have skills (or ability) to conduct quality research.		
Learning Objective	Sample	Methods
(L11) Graduate will have basic quantitative skills for research. (L12) Graduate will have basic theory, analytical research tools , and background about their research area.	Qualification Exam in Fall Semester (N= 11)	- Qualification Exam evaluation
- Professor in charge evaluates doctoral students who took qualification exam. * 1 (Fails to Meet Expectations) 2 (Meets Expectations) 3 (Exceed Expectation)		

Management Engineering Program Assessment: Learning Goal 2		
Our graduates will be effective professional communicators.		
Learning Objective	Sample	Methods
(L21) Our student will create well-written professional papers on a research topic. (L22) Our students will deliver an effective oral presentation on a research topic.	Defense of Dissertation in Fall Semester (N= 8)	- Dissertation evaluation
- Uses dissertation evaluation in defenses of dissertation. * 1 (Fails to Meet Expectations) 2 (Meets Expectations) 3 (Exceed Expectation)		

Management Engineering Program Assessment: Learning Goal 3

Learning Goal Our graduates will be capable researchers.

Learning Objective	Sample	Methods
1. Our student will identify and diagnose management/research problems. (L31) 2. Our students will engage in management research and present the findings of such research effectively. (L32)	Defense of Dissertation in Fall Semester (N= 8)	- Dissertation evaluation
- Uses dissertation evaluation in defenses of dissertation		
* 1 (Fails to Meet Expectations) 2 (Meets Expectations) 3 (Exceed Expectation)		

Data Analysis and Results

Assessment Learning Goal 1: Qualification Exam									
Professor in charge evaluates the 1 st year doctoral students									
Student Number	L11					L12			
	1	2	3	4	5	1	2	3	4
1	3	3	3	3	3	3	3	3	3
2	3	2	2	3	2	3	3	3	3
3	3	2	2	3	2	3	3	3	3
4	2	3	3	2	3	3	2	2	3
5	3	3	3	3	3	3	2	3	3
6	2	3	3	2	2	2	3	3	2
7	2	3	2	3	2	2	3	2	3
8	3	3	3	3	2	3	3	2	3
9	2	3	2	3	2	3	3	2	3
10	2	3	2	3	3	2	3	2	2
11	2	2	2	3	3	3	2	3	2
3 point total	0	0	0	0	0	0	0	0	0
2 point total	6	3	6	2	6	3	3	5	3
1 point total	5	8	5	9	5	8	8	6	8
Mean	2.45	2.73	2.45	2.82	2.45	2.73	2.73	2.55	2.73

* Criteria: 1 (Fails to Meet Expectations) 2 (Meets Expectations) 3 (Exceeds Expectations)

Assessment Learning Goal 2: Defense of Dissertation													
Committee member evaluates the master or doctoral students													
Student Number	L21						L22						
	1	2	3	4	5	6	1	2	3	4	5	6	7
1	3	2	2	3	3	3	3	3	2	2	3	3	3
2	3	2	3	3	3	3	3	3	2	2	3	3	3
3	3	3	3	3	3	2	3	3	2	3	3	3	3
4	3	2	2	3	3	3	3	3	2	2	2	3	3
5	3	2	2	3	3	3	3	3	3	3	2	3	3
6	3	3	3	3	3	3	3	2	3	3	3	3	3
7	2	2	2	3	3	3	3	3	3	3	3	3	3
8	3	2	2	3	3	3	3	2	3	3	3	3	2
3 point total	0	0	0	0	0	0	0	0	0	0	0	0	0
2 point total	1	6	5	0	0	1	0	2	4	3	2	0	1
1 point total	7	2	3	8	8	7	8	6	4	5	6	8	7
Mean	2.88	2.25	2.38	3.00	3.00	2.88	3.00	2.75	2.50	2.63	2.75	3.00	2.88

* Criteria: 1 (Fails to Meet Expectations) 2 (Meets Expectations) 3 (Exceeds Expectations)

Assessment Learning Goal 3: Defense of Dissertation													
Committee member evaluates the master or doctoral students													
Student Number	L31						L32						
	1	2	3	4	5	6	1	2	3	4	5	6	7
1	3	3	3	3	3	2	3	3	3	2	2	3	3
2	3	3	3	3	3	2	3	3	3	3	3	3	3
3	3	3	3	3	3	3	3	3	3	3	3	2	3
4	3	2	3	3	3	2	3	3	3	3	3	3	3
5	3	2	3	3	3	2	3	3	3	3	3	3	3
6	3	2	2	2	3	2	3	3	3	3	3	2	3
7	3	3	3	2	2	2	3	3	3	2	3	3	3
8	3	3	3	3	2	2	3	3	3	3	3	3	3
3 point total	0	0	0	0	0	0	0	0	0	0	0	0	0
2 point total	0	3	1	2	2	7	0	0	0	2	1	2	0
1 point total	8	5	7	6	6	1	8	8	8	6	7	6	8
Mean	3.00	2.63	2.88	2.75	2.75	2.13	3.00	3.00	3.00	2.75	2.88	2.75	3.00

* Criteria: 1 (Fails to Meet Expectations) 2 (Meets Expectations) 3 (Exceeds Expectations)

Result Interpretation and Comments

- Learning Goal 1 – Objective 1 (L11)

An overall score for L11 is 2.58. The results imply that the graduates have enough quantitative skills for their research. In particular, the average score for ‘application of quantitative tools’ is 2.82. The graduates are capable of using appropriate quantitative tools depending on their subject. In general, average scores increased compared to the last year.

- Learning Goal 1 – Objective 2 (L12)

An overall score is 2.68 for L12. The results imply that the graduates have enough knowledge about their research areas, theories and research tools. In particular, the average score for ‘understanding theory’, and ‘application of theory’ is 2.73. It shows the graduates are well aware of theories and able to apply theories to their research. In contrast, the average score for ‘proper use of effective research tools’ is 2.55. Although it is still a high score, it is the lowest one among other criteria. Therefore, the college also needs to put more emphasis on the research tools.

- Learning Goal 2 – Objective 1 (L21)

An overall score is 2.73 for L21. The results imply that the graduates are able to write well-written professional papers. In particular, average score for ‘purpose and audience’ is 3.00. However average score for ‘language’ is 2.25. Moreover, the score on ‘Spelling and grammar’ was below 2.4 for the past four consecutive years. It suggests that more education on English skill is required.

- Learning Goal 2 – Objective 2 (L22)

An Overall score is 2.79 for L22. The results imply that the graduates can deliver an effective oral presentation. The average score for ‘organization’ is 3.00. It shows an effort and high dedication of the graduates. All criteria scored higher than 2.5. It is the result from the college’s effort to enhance presentation skills. For instance, a course ‘Business presentation’ is mandated for every student.

- Learning Goal 3 – Objective 1 (L31)

An overall score is 2.73 for L31. The results imply that our students can diagnose research problems effectively. Every criterion except ‘use new ideas and analysis methods not included in the problems’ scored higher than 2.6, which is impressive. In particular, average score for ‘Ethical solutions’ is 3.00. Overall, the results show that the college’s effort to emphasize “asking the right question” was successful.

- Learning Goal 3 – Objective 2 (L32)

An overall score is 2.88 for L32. The results imply that our students can approach research problem in a proper way. In particular, average score for ‘problem/objective finding’ is 3.00. It is consistent with the result shown in L11. Scores for the other criteria also exceed 2.7.

- Overall Comments

In general, most of the graduate achieved more than the college expected. Their quantitative skills, dedication and team work was distinctive. Also, the college needs to improve on several aspects such as English skills or academic theories. In general most scores had increased compared to the last year. More effort such as additional courses and feedback system to improve graduates’ qualities is required