

AOL Report Management Engineering(ME) Program Assessment Closing the Loop for 2011 & 2012

- Overall summary

Overall, KAIST management engineering program successfully achieved each learning goal given that an overall score for each learning goal exceeds 2.4 out of 3.

However, some of the learning goals have shown slight decrease in their degree of achievement. Our graduates' skill to communicate professionally and ability to think analytically and creatively has slightly dropped over the past two years. Reinforcing courses on oral speech and presentation skill would be of help to the students. Moreover, more emphasis on critical and analytical reading of literatures might provide the necessary training for the students.

Our graduates have achieved high score in academic teamwork. More than 85% of the students exceed expectations in terms of academic teamwork. This can be attributed to many voluntary interaction activities among students. With highly diverse academic programs at our college, students are exposed to many chances to co-work with other students with various backgrounds. Such team project groups or study groups voluntarily organized by the students seem to be the keys to a high achievement in learning goal 4.

In contrast, our graduates achieved relatively low in learning goal 1. Less than 70% of the students exceed expectations in research qualification. Requiring students to take more rigorous courses on mathematics and econometrics could help enhance the students' quantitative abilities.

● **Assessment**

Learning Goal	Learning Objectives	Course	Performance				Date Measured	Result
			Level (%)					
			3point	2point	1point			
(L1) Research Qualification Our graduates will have skills (or ability) to conduct quality research	(L11) Graduate will have basic quantitative skills for research	Qualification Exam	66.2%	30.8%	3.1%	2012Fall	There is a room for improvement in our graduates' quantitative skills and background understandings. Encouraging students to take more rigorous courses on mathematics and econometrics might be needed.	
	(L12) Graduate will have basic theory, analytical research tools, and background about their research area	Qualification Exam	53.8%	38.5%	7.7%	2012Fall		

Learning Goal	Learning Objectives	Course	Performance				Date Measured	Result
			Level (%)					
			3point	2point	1point			
(L2) Professional Communication Our graduates will be effective professional communicators	(L21) Our student will create well-written professional papers on a research topic	Defense of Dissertation	75.0%	25.0%	0.0%	2011Fall	Our graduates' skill to communicate professionally has slightly dropped over the past two years. Encouraging students to learn presentation skills and increasing the proportion of classes with presentation assignment would help achieving the learning goal.	
			69.2%	28.8%	1.9%	2012Fall		
	(L22) Our students will deliver an effective oral presentation on a research topic	Defense of Dissertation	82.9%	17.1%	0.0%	2011Fall		
			69.2%	30.2%	0.5%	2012Fall		

Learning Goal	Learning Objectives	Course	Performance				Date Measured	Result
			Level (%)					
			3point	2point	1point			
(L3) Analytical and Creative Thinking Our graduates will be capable researchers	(L31) Our student will identify and diagnose management/research problems	Defense of Dissertation	90.0%	10.0%	0.0%	2011Fall	Our graduates' ability to think analytically and creatively has significantly dropped recently. More emphasis on literature review and understanding of concurrent issue in management will help students to identify and diagnose research problems.	
			70.9%	29.1%	0.0%	2012Fall		
	(L32) Our students will engage in management research and present the findings of such research effectively	Defense of Dissertation	86.0%	14.0%	0.0%	2011Fall		
			66.2%	33.8%	0.0%	2012Fall		

Learning Goal	Learning Objectives	Course	Performance				Date Measured	Result
			Level (%)					
			3point	2point	1point			
(L4) Academic Teamwork Our graduates will use team building successfully	(L41) Our students will know how to build a academic team successfully	BA661 IT Strategy & BA763 Social Network Analysis	88.5%	11.5%	0.0%	2011Fall	Although there was a slight drop in the score, the change is negligible with relatively high scores being maintained. Voluntary formations and interactions among students can be attributed to the positive outcome.	
		BA771 IT Strategy	85.7%	14.3%	0.0%	2012Fall		