

**DEPARTMENT OF MECHANICAL ENGINEERING, IUPUI
FACULTY FEEDBACK FORM FOR COURSE OUTCOMES SURVEYS**

Note: This form is to be completed and submitted to the department by instructors at the end of each semester based on the survey results of courses taught. It is designed to monitor student learning, keep track of progress and changes made in the program, and allow faculty reflect upon the results. The survey results may be viewed from the department's survey database at <http://www.engr.iupui.edu/me/assessment/fsurveys.shtml>. The completed form is to be emailed to hakay@iupui.edu (note: first save the file locally then email as an attachment).

Course: ME 551 Finite Element Analysis	Year: 2005	Semester: Fall
Instructor: H.U. Akay	Survey Average: 4.11 (Out of 5)	Faculty Average: 4.50 (Out of 5)

1. List the outcomes that did not meet the Department's current threshold of 3.75 out of 5.0 and explain the reasons. If all or most outcomes in your course are equal to or above 3.75, please reflect upon on the lowest two or three. Please state the outcomes as fully as possible, as in the course outcomes list, with the numbers same as on the list.

"Code finite element programs with minimum extra training," 3.60/5.00. Only this outcome is below the 3.75 threshold. This outcome has consistently been lower in the past (last year it was 2.64). I believe this improvement is a result of the programming assignment I gave for the first time in many years. In previous semesters, I only discussed the programming aspects of the method without assigning any programming. I am glad that its positive effect is seen.

The two other lower ones are "make error analysis and checks to verify accuracy of the finite element solutions," 3.90/5.00 and "apply the method to problems in their specified field of study," 3.90/5.00. Nevertheless, they both are better than previous years, due to extra emphasis I placed on the related topics.

2. Were there any changes made to the course during the semester? If so, explain.

I have changed the method of teaching, by switching to more active method and by strictly requiring the students to read the lecture notes prior to the class. Also, rather than lecturing from Powerpoint slides directly, I used the blackboard more. In spite of all technological conveniences available, this still seems to be a preferred teaching methodology among students.

3. Are there any recommendations for improvement?

Continue giving programming assignments and dwell more on applications and evaluation of finite element solution results.

4. Additional reflections/suggestions for assessment?

I am pleased to see the positive impact of the changes I have made this semester. The effect is observed with higher scores in all categories. The students' self evaluations are slightly lower than my estimates (4.11 versus 4.50).

Please email to: hakay@iupui.edu. Thanks.