

**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: ME262	Year: 2005	Semester: FALL
Instructor: Gustavo Rengifo/Dr. Dokumaci	Survey Average: 4.53 (Out of 5)	Faculty Average: (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.

All the outcomes are above 3.75. The lowest three are:

- 1) **4.29:** 2. Apply vector algebra, complex number and numerical methods for motion study of linkages and mechanisms.

A hand calculation was asked in order to validate results obtained in the 1st Matlab project. Algebra and numerical methods (Newton-Raphson can be used to perform the position analysis)

- 2) **4.41:** 5. Write interactive computer programs to solve engineering design problems.

It was part of the 1st. Matlab Project. The students had to write a code in order to analyze the kinematics of a 4 bar mechanism.

- 3) **4.53:** 1. Implement the design process in engineering design projects.

It was part of the 2 lecture team projects. Help and orientation sessions were scheduled in order to overcome problems and unknowns that students had in the developing of these 2 projects.

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

Some extra projects and assignments were given in comparison with previous semesters. A degrees of freedom lab activity as well as an extra DOF homework were given. This was to make the knowledge of this topic stronger (since it is important for upcoming courses), Also a

kinematical analysis assignment of a 4-bar linkage was given. Students had to use Matlab and ProE (Pro/Mechanism) in order to complete this work.

3. Are there any recommendations for improvement?

I would recommend spend more time in the analysis (Position, velocity and acceleration) of mechanisms in the lecture portion of this course. It's important since this material will be useful and required in further courses (i.e. ME372).

4. Additional reflections/suggestions for assessment?

The class was really good. Students were motivated and willing to learn. In fact, the material covered in the lab portion was used in the developing of the two lecture team projects. Matlab and ProE were used for the calculation and modeling (dynamic models-Pro/Mechanism) portions of these 2 projects.

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