

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

Note: This form must 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 may be sent to the assessment database of the department via e-mail at: **hakay@iupui.edu**.

Course: ME262	Year: 2005	Semester: Spring
Instructor: E.Dokumaci	Survey Average: 2.71 (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.

Outcome 1:

This course is taken before a basic course on stress analysis and machine elements. Applications are limited to the procedural practices on the phases of design process.

Outcomes 2, 3, 4:

These outcome statements are in fact some phases of the design process. They are presented by examples gathered from the business and engineering practice. The learning impact is rather partial, because student experience is in general limited at this early level to appreciate the issues involved fully. However, a firm basis is built for improvement in higher level courses.

Outcomes 5, 6:

-Only position analysis is included in the syllabus. Velocity and acceleration analysis is also required for appreciation of motion characteristics, but this deferred to Design II in the current program.

-Numerical methods are not shown. This is a more advanced topic and best treated after a course on numerical analysis.

Outcome 7:

-Only mechanism synthesis for position is covered.

-Focus is on graphical synthesis; too early to teach computer synthesis methods in any useful manner.

Outcome 8:

This outcome is not clear to me.

Outcome 9.

-The accomplishment of this outcome is supported by Matlab computer lab sessions and using

a textbook with extensive computer program support. Additionally, students are encouraged to use software like WorkingModel for visualization purposes and MathCad or Excel for calculations.

-At the present, students are not tested for their capability of using these tools.

-The course can be re-structured for being delivered in a computer lab.

Outcome 10:

-The course contributes to this outcome through the needs in Team Projects and lab projects.

-Students are assumed to have taken a basic course on internet and patent search.

Outcome 11:

-The course contributes to this outcome through the reporting of Team Projects and lab projects. No oral presentations are assigned at the present.

-Students are assumed to have taken a basic course on report writing.

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

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3. Are there any recommendations for improvement?

1) Long term: Program requires revision w.r.t the delivery of design courses

2) Short term: It is essential that students' project work and homework are monitored. A 1 or 2 hr/week mandatory recitation where students report their progress with HW and project assignments is recommended.

4. Additional reflections/suggestions for assessment?

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Please e-mail to: hakay@iupui.edu. Thanks.