

**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 cwooton@iupui.edu (*note: first save the file locally, then email as an attachment*).

Course: ME 372 Lab	Year: Spring	Semester: 2007
Instructor: Latif Razak	Survey Average: 4.24 (Out of 5)	Faculty Average: 3.75 (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.

Calculate and experimentally measure the speed reduction and the efficiency of planetary gear systems, and to observe the effect of design configuration on the efficiency [a4, b, d].
-Reason: i) A small amount of students did not read the lab manual prior to conducting the experiment ii) Experiment is simple in its approach. Ample to illustrate the effects of changing the parameters but does not render any usefulness if students do not have basic theoretical understanding of the relation between the carrier, sun and the planet gears. Refer to reason (i)

Explain failure due to resonance (or excessive vibration) through the observation of the phenomenon of whirling and the measurement/extraction of modal parameters at resonance [a4, b, d].
-Reason: i) Lack of understanding of the fact that there are more than one mode in a system ii) Equipment lacks accuracy to illustrate whirling i.e. different reading of frequencies at the same mode

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

Instructor change during the 6th week of the semester.

3. Are there any recommendations for improvement?

No

4. Additional reflections/suggestions for assessment?

No

Please email to Courtney Wooton at cwooton@iupui.edu. Thanks.