

**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](mailto:hakay@iupui.edu) (*note: first save the file locally then email as an attachment*).

Course: ME 510	Year: 2006	Semester: Fall
Instructor: Razi Nalim	Survey Average: 4.24 (Out of 5)	Faculty Average: 3.89 (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.

7. Apply linearized equations of transonic flow to transonic nozzle analysis. [3.60]  
 8. Apply the method of characteristics to simple steady two-dimensional flows.[3.20]  
 9. Apply the method of characteristics to simple unsteady one-dimensional homoentropic flow and shock tube flow.[3.40]  
 These were the last three topics in the course and there was not sufficient time for problem-solving and discussion. Also, the material was presented using slides, whereas previous topics were 'chalk and talk' that students liked, but was slow. With a slightly faster pace in the earlier topics which had high outcome scores, the balance could be restored in this highly analytical course.

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

A term paper was added to the course this semester for the first time. It was successful in having students learn a topic of interest in more detail, and learning to research the literature.

3. Are there any recommendations for improvement?

Although course notes are available for slide presentation, and helps to maintain pace, students understand better with stepwise derivation of equations. Balance slide and blackboard better, and keep tight schedule to avoid last-week rush. Give some homework on derivations, as suggested by a student. Keep term paper.

4. Additional reflections/suggestions for assessment?

Very high self-scoring on outcomes may not always be the best, and might imply that the course is not challenging enough. Aim for 4-4.5, keep 3.75 as a threshold of concern.

Please email to: [hakay@iupui.edu](mailto:hakay@iupui.edu). Thanks.