

**Outcome J.** Graduates will have knowledge of contemporary issues.

Course	Performance indicators
MAE 320, 335, 423, 426	Use of contemporary facts, information or data on engineering assignments.
MAE 320, 335, 423, 426	Effective use of contemporary sources of information.
MAE 320, 335, 423, 426	Grade distribution.

Tools used: Course assessment by faculty, Alumni survey, Employer survey.

Data Collection: The data are collected every semester based on the course offerings.

Frequency of data collection: The data are collected every time courses are taught.

Data Analysis: The data obtained are analyzed every year.

Closing the loop: This outcome is subject to review every year based on performance criteria and metrics and specific action items are developed, if necessary, to revise the content of the courses. The analyzed data are presented separately to the following groups in meetings.

- a) Feedback to students on all assignments
- b) Feedback to faculty, particular from majors.

Outcome and Performance Indicator		Performance Indicator Rubric				
<b>Outcome J</b> “Graduates will have knowledge of contemporary issues.”		<b>Poor</b>	<b>Fair</b>	<b>Good</b>	<b>Very Good</b>	<b>Excellent</b>
PI1	Use of contemporary facts, information or data on engineering assignments.	No mention of contemp. issues	Contemp. issues barely Mentioned	Contemp. issues Addressed in context	Contemp. issues Addressed in context and illustrated	Contemp. issues Addressed, illustrated & discussed
PI2	Effective use of contemporary sources of information.	No sources of info cited.	Cont. sources of info. mentioned	Cont. sources of info. Used	Cont. sources of info. Used effectively	Cont. sources of info. Used effectively & explained
PI3	Grade distribution	1 (F)	2 (D)	3 (C)	4 (B)	5 (A)
<p><b>Performance Indicator 1. (PI1).</b> <u>“Use of contemporary facts, information or data on engineering assignments.”</u> Engineering is a profession which is often invoked in the context of contemporary issues (events involving facts, issues and/or data). The following rubrics are used to assess this indicator:</p> <ul style="list-style-type: none"> <li>- <b>Poor.</b> This rubric is used when an assignment offers no evidence of contemporary issues being addressed or used in the formulation and/or solution of engineering problems.</li> <li>- <b>Fair.</b> This rubric is used when an assignment offers some evidence of contemporary issues used in the formulation and/or solution of engineering problems.</li> <li>- <b>Good.</b> This rubric is used when an assignment offers evidence of specific contemporary issues being used in the formulation and/or solution of engineering problems, with some general references to sources of facts, data or information.</li> <li>- <b>Very Good.</b> This rubric is used when an assignment offers strong evidence of specific contemporary issues being used in the formulation and/or solution of engineering problems, with specific relevant references to the sources of facts, data and/or information.</li> <li>- <b>Excellent.</b> This rubric is used when in addition to the previous rubric; the contemporary issues and the sources are used effectively to produce results which are then illustrated and documented.</li> </ul> <p><b>Performance Indicator 2. (PI2).</b> <u>“Effective use of contemporary sources of information.”</u> Engineering is a profession which is often challenged with contemporary issues that call for the creative use of information resources. The following rubrics are used to assess this indicator:</p> <ul style="list-style-type: none"> <li>- <b>Poor.</b> This rubric is used when an exercise that offer the opportunity to use contemporary sources of information, produces no evidence of the use of any contemporary source of information.</li> <li>- <b>Fair.</b> This rubric is used when an exercise that offer the opportunity to use contemporary sources of information, produces some evidence of the use of some contemporary sources of information.</li> </ul>						

- **Good.** This rubric is used when an exercise, produces evidence of the use of contemporary sources of information with some detail.
- **Very Good.** This rubric is used when an exercise, produces clear evidence of the use of contemporary sources of information and resources which are relevant and effectively used.
- **Excellent.** This rubric is used when in addition to the previous rubric, there is a narrative explaining the significance of the sources and resources used.

**Performance Indicator 3. (PI3).** Grade distribution from class on applicable assignments or exercises. A, B, C, D ,F