

Doctor of Engineering  
Annual Program Report

Year:	2022 (Submitted in March 2023)
Program:	Doctor of Engineering
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Summary of Continuous Improvement Efforts since Last Report

Provide a brief description of how assessment results have been used for program improvement. Point to a specific example of how an assessment of the program with data it could use for improvement and what that improvement was, if possible, also show evidence of the improvement. You may look at data from the two previous academic years to support this case.

Respond here:

The following improvements have been implemented to the

- 4) CHEN 6344 Multimedia Transport Pollutant
- 5) CHEN 6346 Sustainability Applications
- 6) CHEN 6363 Process Modeling w/ Neural Network
- 7) ELEN 6303 Python Programming
- 8) INEN 6305 Engineering Reliability
- 9) MEEN 6312 Advanced Topics on Fluid Mechanics
- 10) MEEN 6332 Advanced Topics in Computational Fluids
- 11) MEEN 6315 Advanced Engineering Mathematics

Table 1. Assessment Results and Analyses for Current Cycle.

STAGE 1: PLAN	STAGE 2: DO	STAGE 3: STUDY
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<i>Outcome #1</i>	Criterion #3 Strategy/Procedures	Dissertation/field study report	By the student's dissertation committee			to write a dissertation including terminology and notation.
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						ranging research seminars, which all DE students are encouraged to attend.
<i>Outcome #2</i>					3.5	Met the target
<i>Outcome #3: An ability to use modern engineering tools to produce engineering analysis in a systematic manner.</i>	Criterion #1 Ability of using modern engineering tools	Dissertation/field study report	By the student's dissertation committee	2.8 or > 70%	3.8	Meet the expectation
<i>Outcome #3</i>	Criterion #2 Quality of analysis	Dissertation/field study report	By the student's dissertation committee	2.8 or > 70%	3.7	Meet the expectation  Approximately 10 new DE 6000-level courses have been added. There will be continued work on adding engineering math and science courses.
<i>Outcome #3</i>					3.8	Met the target
<i>Outcome #4: An ability to complete a doctoral dissertation and effectively communicate the dissertation work orally and in writing.</i>	Criterion #1 Dissertation significance	Dissertation/field study report	By the student's dissertation committee	2.8 or > 70%	3.8	Meet the expectation
<i>Outcome #4</i>	Criterion #2 Organization of Dissertation	Dissertation/field study report	By the student's dissertation committee	2.8 or > 70%	3.7	Meet the expectation  This criterion is an improvement over that of the previous report. The ENGR 6110 Professional Seminar course added the content on how to write a dissertation.

<i>Outcome #4</i>	Criterion #3 Dissertation presentation & delivery	Dissertation/field study report	By the student's dissertation committee	2.8 or > 70%	3.8	Meet the expectation
<i>Outcome #4</i>	Criterion #4 Question & answer impromptu skills	Dissertation/field study report	By the student's dissertation committee	2.8 or > 70%	3.4	Meet the expectation
<i>Outcome #4</i>					3.7	Met the target

The College of Engineering is increasingly holding seminars in various fields of study which all DE students are encouraged to attend.