

2017-2018 Assessment Cycle (College of Engineering) ENGR_Industrial Technology BS

Mission

Welcome to the "Mission" tab. First, review the University's Mission, Values, and Vision statements provided below. Then, in the section labeled "Department / Program Mission", type in the current mission for your department, program, or unit. Click "Save" when you are finished.

University Mission

The University of Louisiana at Lafayette offers an exceptional education informed by diverse worldviews grounded in tradition, heritage, and culture. We develop leaders and innovators who advance knowledge, cultivate aesthetic sensibility, and improve the human condition.

University Values

We strive to create a community of leaders and innovators in an environment that fosters a desire to advance and disseminate knowledge. We support the mission of the university by actualizing our core values of equity, integrity, intellectual curiosity, creativity, tradition, transparency, respect, collaboration, pluralism, and sustainability.

University Vision

We strive to be included in the top 25% of our peer institutions by 2020, improving our national and international status and recognition.

Program Mission

Program Mission

If applicable, provide the program's mission in the space provided. If none exists, write "None Available in 2016-2017".

The mission of the Department of Industrial Technology is to prepare management-oriented technical professionals for employment in industry, business, government and education.

Goals (University/Program tied to Curriculum)

Standards/Outcomes

Identifier	Description
ABET-	CRITERION: Program Outcomes and Assessment Although institutions may use different terminology, for purposes of Criterion 3, program

EAC.1.3	outcomes are intended to be statements that describe what students are expected to know or be able to do by the time of graduation from the program.
ABET-EAC.1.3.1	> an ability to apply knowledge of mathematics, science, and engineering
ABET-EAC.1.3.10	> a knowledge of contemporary issues
ABET-EAC.1.3.11	> an ability to use the techniques, skills, and modern engineering tools necessary for engineering practice.
ABET-EAC.1.3.12	Each program must have an assessment process with documented results. Evidence must be given that the results are applied to the further development and improvement of the program. The assessment process must demonstrate that the outcomes of the program, including those listed above, are being measured.
ABET-EAC.1.3.2	> an ability to design and conduct experiments, as well as to analyze and interpret data
ABET-EAC.1.3.3	> an ability to design a system, component, or process to meet desired needs
ABET-EAC.1.3.4	> an ability to function on multi-disciplinary teams
ABET-EAC.1.3.5	> an ability to identify, formulate, and solve engineering problems
ABET-EAC.1.3.6	> an understanding of professional and ethical responsibility
ABET-EAC.1.3.7	> an ability to communicate effectively
ABET-EAC.1.3.8	> the broad education necessary to understand the impact of engineering solutions in a global and societal context
ABET-EAC.1.3.9	> a recognition of the need for, and an ability to engage in life-long learning

Additional Standards/Outcomes

Identifier	Description
ITEC.ITEC_1	Apply graphics communications to solve industrial problems .
ITEC.ITEC_2	Apply concepts of electricity and electronics to solve industrial problems.
ITEC.ITEC_3	Apply concepts of safety in industrial applications.
ITEC.ITEC_4	Explain management concepts of employer relations and industrial supervision.

ITEC.ITEC_5	Communicate effectively using written communication.
ITEC.ITEC_6	Communicate effectively using oral communication.
ITEC.ITEC_7	Apply mathematical, statistical and scientific principles to industrial situations to maintain and enhance the work within industry.
ITEC.ITEC_8	Use the computer proficiently as well as information technology as an essential tool in planning, monitoring, and controlling of work within industry.
ITEC.ITEC_9	Demonstrate an understanding of the fundamentals of fluid power systems to solve industrial problems.

Curriculum Map

Assessment Findings for the Assessment Measure level for Industrial Technology BS(Imported)

Legend	A - Assessed				
Course/Event	ITEC 268				
Standard/Outcome	ITEC.ITEC_3 Apply concepts of safety in industrial applications.				
Assessment Measures	Assessment Measure	Criterion	Summary	Attachments of the Assessments	Improvement Narratives
	Direct - Pre/Post Test	Has the criterion 70% of students enrolled in ITEC 268 will correctly answer questions on calculating incidence rate and severity rate. been met yet? Met	80% of 88 students enrolled in ITEC 268 for Fall 2017/Spring 2018 correctly answered one or both questions on incidence and severity rate.		- Assessment Process: Continuous monitoring: We are currently monitoring this assessment to assure we are meeting our goal in this area.

Legend	A - Assessed				
Course/Event	ITEC 270				
Standard/Outcome	ITEC.ITEC_1 Apply graphics communications to solve industrial problems .				

Assessment Measures					
	Assessment Measure	Criterion	Summary	Attachments of the Assessments	Improvement Narratives
	Direct - Project	Has the criterion 85% of students enrolled in ITEC 270 will successfully completed a final CAD project with a "C" or better. been met yet? Met	97% of 158 students successfully completed a final CAD project with a "C" or better.		

Legend	A - Assessed				
Course/Event	ITEC 307				
Standard/Outcome	ITEC.ITEC_9 Demonstrate an understanding of the fundamentals of fluid power systems to solve industrial problems.				
Assessment Measures					
	Assessment Measure	Criterion	Summary	Attachments of the Assessments	Improvement Narratives
	Direct - Pre/Post Test	Has the criterion 70% of students completing ITEC 307 will correctly answer questions related to the understanding of Fluid Power Systems. been met yet? Met	98% of 89 students enrolled in ITEC 307 in Fall 2017/Spring 2018 have successfully demonstrated completion of a theoretical problem set and hands-on laboratory practical demonstrating an understanding of the fundamentals of fluid power systems to solve industrial problems.		

Legend	A - Assessed
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Course/Event	ITEC 322				
Standard/Outcome	ITEC.ITEC_2 Apply concepts of electricity and electronics to solve industrial problems.				
Assessment Measures	Assessment Measure	Criterion	Summary	Attachments of the Assessments	Improvement Narratives
	Direct - Performance (recital/exhibit/science project)	Has the criterion 75% of students enrolled in ITEC 322 will demonstrate the ability to successfully complete a theoretical problem set and hands-on laboratory practical. been met yet? Met	84% of 102 students enrolled in ITEC 322 in Fall 2017/Spring 2018 have successfully demonstrated completion of a theoretical problem set and hands-on laboratory practical.		

Legend	A - Assessed				
Course/Event	ITEC 424				
Standard/Outcome	ITEC.ITEC_6 Communicate effectively using oral communication.				
Assessment Measures	Assessment Measure	Criterion	Summary	Attachments of the Assessments	Improvement Narratives
	Direct - Presentation	Has the criterion Using a decision making rubric, 80% of students will achieve a level 2 or better on an oral robotic presentation in ITEC 424. been met yet? Met	82% of 17 students taking ITEC 424 in Spring 2018 successfully earned a level 2 or better on the final oral robotic project presentation.		

Legend	A - Assessed				
Course/Event	ITEC 446				
Standard/Outcome	ITEC.ITEC_5 Communicate effectively using written communication.				
Assessment Measures					
	Assessment Measure	Criterion	Summary	Attachments of the Assessments	Improvement Narratives
	Direct - Project	Has the criterion Using a decision making rubric, 80% of students assessed will achieve a level 2 or better on the final layout project written report. been met yet? Met	96% of 50 students enrolled in ITEC 446 in Fall 2017/Spring 2018 that were assessed were successful in achieving a level 2 or better on their completed final layout project written report.		

Legend	A - Assessed				
Course/Event	ITEC 446				
Standard/Outcome	ITEC.ITEC_6 Communicate effectively using oral communication.				
Assessment Measures					
	Assessment Measure	Criterion	Summary	Attachments of the Assessments	Improvement Narratives
	Direct - Project	Has the criterion Using a decision making rubric, 80% of students will earn level 2 or better on the final layout project presentation in ITEC 446. been met yet? Met	96% of 50 students enrolled in ITEC 446 in Fall 2017/Spring 2018 successfully completed the final layout project oral presentation earning a level 2 or better.		

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Legend	A - Assessed				
Course/Event	ITEC 462				
Standard/Outcome	ITEC.ITEC_4 Explain management concepts of employer relations and industrial supervision.				
Assessment Measures	Assessment Measure	Criterion	Summary	Attachments of the Assessments	Improvement Narratives
	Direct - Capstone Assignment	Has the criterion 80% of students enrolled in ITEC 462 will successfully complete a management scheduling problem evaluated on a pass/fail basis. been met yet? Met	83% of 124 students enrolled in ITEC 462 in Fall 2017/Spring 2018 successfully completed a management scheduling problem.		

Legend	A - Assessed				
Course/Event	ITEC 462				
Standard/Outcome	ITEC.ITEC_5 Communicate effectively using written communication.				
Assessment Measures	Assessment Measure	Criterion	Summary	Attachments of the Assessments	Improvement Narratives
	Direct - Written Assignment	Has the criterion 80% of students will successfully submit employment documentation evaluated on a pass/fail basis. been met yet?	100% of 126 students enrolled in ITEC 462 in Fall 2017/Spring 2018 were successful in submitting employment documentation off which included a		

	Met	resume.		
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Legend	A - Assessed				
Course/Event	ITEC 474				
Standard/Outcome	ITEC.ITEC_7 Apply mathematical, statistical and scientific principles to industrial situations to maintain and enhance the work within industry.				
Assessment Measures	Assessment Measure	Criterion	Summary	Attachments of the Assessments	Improvement Narratives
	Direct - Pre/Post Test	Has the criterion 70% of students will be able to correctly calculate and plot a Histogram with a given data set. been met yet? Met	75% of students enrolled in ITEC 474 for Fall 2017/Spring 2018 successfully completed an embedded problem on the final exam which required them to successfully calculate a histogram with a given data set.		

Legend	A - Assessed				
Course/Event	Indirect Measure				
Standard/Outcome	ITEC.ITEC_1 Apply graphics communications to solve industrial problems .				
Assessment Measures	Assessment Measure	Criterion	Summary	Attachments of the Assessments	Improvement Narratives

	Indirect - Survey - employer	Has the criterion 85% of employers surveyed every five years will indicate that they are satisfied with the ITEC graduates application of graphic communications (CAD) for problem solving and daily work activities. been met yet? Met	This measure is taken every 5 years. The most recent survey was conducted in Spring/Summer 2017 with the following results: "86% of employers surveyed in Spring/Summer 2017 indicate that they are satisfied with the ITEC graduate's application of graphic communication (CAD) for problem solving and daily work activities."		
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Legend	A - Assessed				
Course/Event	Indirect Measure				
Standard/Outcome	ITEC.ITEC_2 Apply concepts of electricity and electronics to solve industrial problems.				
Assessment Measures					
	Assessment Measure	Criterion	Summary	Attachments of the Assessments	Improvement Narratives
	Indirect - Survey - employer	Has the criterion 70% of employers responding to a survey every five years will indicate satisfaction with an ITEC graduate's technical skills in electronics to solve industrial problems. been met yet? Met	This measure is taken every 5 years. The most recent survey was conducted in Spring/Summer 2017 with the following results: "71% of employers surveyed in Spring/Summer 2017 indicate that they are satisfied with the ITEC graduate's technical skills in electronics to solve industrial problems."		

Legend	A - Assessed				
Course/Event	Indirect Measure				

Standard/Outcome	ITEC.ITEC_3 Apply concepts of safety in industrial applications.				
Assessment Measures	Assessment Measure	Criterion	Summary	Attachments of the Assessments	Improvement Narratives
	Indirect - Survey - students	Has the criterion 70% of employers responding to a survey conducted every five years will indicate satisfaction with the ITEC graduate's knowledge and use of standard safety principles in every day work activities. been met yet? Met	This measure is taken every 5 years. The most recent survey was conducted in Spring/Summer 2017 with the following results: "85% of employers surveyed in Spring/Summer 2017 indicate satisfaction with the ITEC graduate's knowledge and use of standard safety principles in daily work activities."		

Legend	A - Assessed				
Course/Event	Indirect Measure				
Standard/Outcome	ITEC.ITEC_4 Explain management concepts of employer relations and industrial supervision.				
Assessment Measures	Assessment Measure	Criterion	Summary	Attachments of the Assessments	Improvement Narratives
	Indirect - Survey - alumni	Has the criterion 80% of students completing the Graduate Exit Exam will indicate satisfactory knowledge of management concepts. been met yet? Met	100% of 65 students completing the graduate exit survey indicated that they had satisfactory knowledge of management concepts.		
	Indirect - Survey -	Has the criterion 70% of employers completing the	This measure is taken every 5 years. The most recent survey was conducted in Spring/Summer		

	employer	Employer Survey sent out every 5 years will indicate satisfactory knowledge of management concepts with those students hired. been met yet? Met	2017 with the following results: "71% of employers surveyed in Spring/Summer 2017 indicate satisfaction with the ITEC graduate's ability to demonstrate skills and attitudes necessary to succeed in leadership and management."		
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Legend	A - Assessed				
Course/Event	Indirect Measure				
Standard/Outcome	ITEC.ITEC_5 Communicate effectively using written communication.				
Assessment Measures	Assessment Measure	Criterion	Summary	Attachments of the Assessments	Improvement Narratives
	Indirect - Survey - students	Has the criterion 90% of ITEC graduating seniors completing a locally administered university graduate exit survey indicated satisfactory knowledge of written communications. been met yet? Met	100% of 65 students completing the graduate exit survey indicated that they effectively communicate using written English very well, well or somewhat well.		- Assessment Process: Continuous monitoring: This assessment criteria has been met with 100% for the past two cycles. We will monitor this assessment criteria again next cycle and if it is again 100% we will retire this assessment after the next cycle.
	Indirect - Survey - employer	Has the criterion 70% of employers completing the employer survey every five years will indicate satisfaction with an ITEC graduate's ability to effectively communicate through written mode. been met yet?	This measure is taken every 5 years. The most recent survey was conducted in Spring/Summer 2017 with the following results: "100% of employers surveyed in Spring/Summer 2017 indicate satisfaction with the ITEC graduate's ability to effectively		

	Met	communicate through written mode."		
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Legend	A - Assessed				
Course/Event	Indirect Measure				
Standard/Outcome	ITEC.ITEC_6 Communicate effectively using oral communication.				
Assessment Measures	Assessment Measure	Criterion	Summary	Attachments of the Assessments	Improvement Narratives
	Indirect - Survey - students	Has the criterion 90% of students completing the graduate exit survey will indicate that they effectively communicate orally. been met yet? Met	100% of 65 students who completed the graduate exit survey indicated that they speak publicly in both formal and informal settings very well, well or somewhat well.		- Assessment Process: Continuous monitoring: This assessment criteria has been met with 100% for the past two cycles. We will monitor this assessment criteria again next cycle and if it is again 100% we will retire this assessment after the next cycle.
	Indirect - Survey - employer	Has the criterion 70% of employers completing the employer survey every five years will indicate above average or better with an ITEC graduate's ability to effectively communicate orally. been met yet? Met	This measure is taken every 5 years. The most recent survey was conducted in Spring/Summer 2017 with the following results: "100% of employers surveyed in Spring/Summer 2017 indicate satisfaction with the ITEC graduate's ability to communicate effectively in verbal mode.		

Legend	A - Assessed				
Course/Event	Indirect Measure				
Standard/Outcome	ITEC.ITEC_7 Apply mathematical, statistical and scientific principles to industrial situations to maintain and enhance the work within industry.				
Assessment Measures	Assessment Measure	Criterion	Summary	Attachments of the Assessments	Improvement Narratives
	Indirect - Survey - students	Has the criterion 85% of graduating seniors completing a university developed and locally administered graduate exit survey will indicate satisfactory knowledge of scientific preparation and quantitative analysis. been met yet? Met	100% of 65 students who completed the graduate exit survey indicated satisfactory knowledge (very well, well or somewhat well) of quantitative analysis preparation and scientific knowledge relating to contemporary topics.		
	Indirect - Survey - employer	Has the criterion 70% of employers who complete the employer survey every five years will indicate satisfactory use of math for problem solving and daily work activities by ITEC graduates. been met yet? Met	This measure is taken every 5 years. The most recent survey was conducted in Spring/Summer 2017 with the following results: "100% of employers surveyed in Spring/Summer 2017 indicate satisfaction with the ITEC graduate's ability to use math for problem solving and daily work activities."		

Legend	A - Assessed				
Course/Event	Indirect Measure				
Standard/Outcome	ITEC.ITEC_8 Use the computer proficiently as well as information technology as an essential tool in planning, monitoring, and controlling of				

	work within industry.				
Assessment Measures	Assessment Measure	Criterion	Summary	Attachments of the Assessments	Improvement Narratives
	Indirect - Survey - students	Has the criterion 70% of ITEC graduating seniors completing a university developed and locally administered graduate exit survey indicate satisfactory knowledge of information technology. been met yet? Met	97% of 65 students who completed the graduate exit survey indicated satisfactory (very well, well and somewhat well) knowledge of information technology.		
	Indirect - Survey - alumni	Has the criterion 70% of ITEC alumni completing a university developed and locally administered alumni survey indicate satisfaction with their understanding and preparation of information technology. been met yet? Met	This measure is taken every 5 years. The most recent survey was conducted in Spring/Summer 2017 with the following results: "75% of the ITEC alumni completing a university developed and locally administered alumni survey indicated satisfaction (completely and to a great extent) with their information technology foundation for working with business, education and industry."		
	Indirect - Survey - employer	Has the criterion 70% of employers completing a university developed and locally administered employer survey indicate satisfaction with the ITEC graduates use of information technology for problem solving and daily work activities. been met yet? Met	This measure is taken every 5 years. The most recent survey was conducted in Spring/Summer 2017 with the following results: "86% of employers surveyed in Spring/Summer 2017 indicated satisfaction with the ITEC graduate's use of information technology and software for problem solving and daily work activities."		

Legend	A - Assessed
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Course/Event	Indirect Measure				
Standard/Outcome	ITEC.ITEC_9 Demonstrate an understanding of the fundamentals of fluid power systems to solve industrial problems.				
Assessment Measures	Assessment Measure	Criterion	Summary	Attachments of the Assessments	Improvement Narratives
	Indirect - Survey - employer	Has the criterion 70% of employers completing a university developed and locally administered employer survey indicate satisfaction with the ITEC graduates use of fluid power knowledge for problem solving and daily work activities. been met yet? Met	100% of employers completing a university developed and locally administered employer survey indicate satisfaction with the ITEC graduates use fluid power knowledge for problem solving and daily work activities.		- Assessment Process: Data Collection changed: Added this indirect measure from employers with information on the students knowledge of fluid power which is taken every 5 years.
	Indirect - Survey - students	Has the criterion 70% of graduating seniors completing a university developed and locally administered student survey indicate satisfactory knowledge of fluid power for problem solving and daily work activities. been met yet? Met	98% of 65 students who completed the graduate exit survey indicated satisfactory (very well, well and somewhat well) knowledge of fluid power.		- Assessment Process: Data Collection changed: Added this indirect measure from the student survey with information on the students knowledge of fluid power.

Summary of Improvement Narratives

Improvement Narrative List

Assessment Findings for the Assessment Measure level

Standard/Outcome	ITEC.ITEC_3 Apply concepts of safety in industrial applications.	
Legend	A	
Course/Event	ITEC 268	
Assessment Measure	Direct - Pre/Post Test	
Assessment Findings	Met	
Improvement Narrative		
	Improvement Type	Summary
	Assessment Process: Continuous monitoring	We are currently monitoring this assessment to assure we are meeting our goal in this area.

Standard/Outcome	ITEC.ITEC_5 Communicate effectively using written communication.	
Legend	A	
Course/Event	Indirect Measure	
Assessment Measure	Indirect - Survey - students	
Assessment Findings	Met	
Improvement Narrative		
	Improvement Type	Summary
	Assessment Process: Continuous monitoring	This assessment criteria has been met with 100% for the past two cycles. We will monitor this assessment criteria again next cycle and if it is again 100% we will retire this assessment after the next cycle.

Standard/Outcome	ITEC.ITEC_6 Communicate effectively using oral communication.	
Legend	A	

Course/Event	Indirect Measure	
Assessment Measure	Indirect - Survey - students	
Assessment Findings	Met	
Improvement Narrative		
	Improvement Type	Summary
	Assessment Process: Continuous monitoring	This assessment criteria has been met with 100% for the past two cycles. We will monitor this assessment criteria again next cycle and if it is again 100% we will retire this assessment after the next cycle.

Standard/Outcome	ITEC.ITEC_9 Demonstrate an understanding of the fundamentals of fluid power systems to solve industrial problems.	
Legend	A	
Course/Event	Indirect Measure	
Assessment Measure	Indirect - Survey - employer	
Assessment Findings	Met	
Improvement Narrative		
	Improvement Type	Summary
	Assessment Process: Data Collection changed	Added this indirect measure from employers with information on the students knowledge of fluid power which is taken every 5 years.

Standard/Outcome	ITEC.ITEC_9 Demonstrate an understanding of the fundamentals of fluid power systems to solve industrial problems.	
Legend	A	
Course/Event	Indirect Measure	
Assessment Measure	Indirect - Survey - students	

Assessment Findings	Met	
Improvement Narrative		
	Improvement Type	Summary
	Assessment Process: Data Collection changed	Added this indirect measure from the student survey with information on the students knowledge of fluid power.

Reflection

Reflection

The primary purpose of assessment is to use data to inform decisions and improve programs and operations; this is an on-going process of defining goals and expectations, collecting results, analyzing data, comparing current and past results and initiatives, and making decisions based on these reflections. Recalling this purpose, respond to the questions below.

1) How were assessment results shared in the unit?

Please select all that apply; if "other", please use the text box to elaborate.

Distributed via email (selected)

Presented formally at staff/department/committee meeting

Discussed informally (selected)

Other (explain in text box below)

2) How frequently were assessment results shared in the unit?

Frequently (>4 times per cycle)

Periodically (2-4 times per cycle)

Once per cycle (selected)

Results were not shared this cycle

3) With whom were assessment results shared?

Please select all that apply.

Department Head (selected)

Dean / Asst. or Assoc. Dean

Departmental assessment committee (selected)

Other faculty / staff (selected)

Other (please explain in text box below)

4) Consider the impact of prior applied changes. Specifically, compare current results to previous results to evaluate the impact of a previously reported change. Demonstrate how the use of results improved student learning and/or operations.

One hundred percent of the criterion was met by the department, up from 88% last cycle. Seventy three percent of the criterion targets that were reported in this cycle were at the same level or higher. Up from 58% the year before.

Based on the two action plans put into place for ITEC 268 which was to increase activities in-class and to create a second course with emphasis on severity rate and incidence rate, we saw an increase in successful completion from 74% to 80%.

Based on the action plan for ITEC 474 which was to increase examples of practical applications in industry using histograms, we saw an increase in successful completion from 64% to 75%.

5) Over the past three assessment cycles, what has been the overall impact of "closing the loop"? Provide examples of improvements in student learning, program quality, or department operations that are directly linked to assessment data and follow-up analysis.

Although we have met all of the assessment criteria for this cycle, 27% or 4 criteria saw a small percentage reduction in success. We will be monitoring these specific criteria to assure this is not a trend in the next cycle.

Two criteria have 100% success for the last two cycles. We will monitor these two criteria in the next cycle and if they are both 100% once again, we may retire these two criteria.

Attachments (optional)

Upload any documents which support the assessment process.