



Academic year 2024-2025

BS in Industrial Technology - BS-BSIT Learning Outcomes

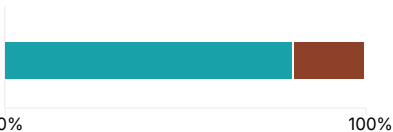
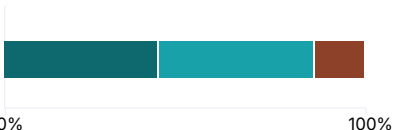
Engineering Management

1. an ability to apply modern engineering management approaches and strategies.

MEASURES	RESULTS	ACTIONS
<p><b>Class Project Performance</b></p> <p>Direct - Assignment</p> <p><i>Industrial Management: INEN 4315</i></p> <p><b>Target</b></p> <p>75% of students to the proficiency of 3 or 4 using attached rubrics. Rubrics are scored by 3 faculty members.</p> <p>The 75% target is set based on the wording of the rubrics. The elements of the rubrics are average to one score for the outcome and rounded down to get the percentage of students who achieve the outcome.</p> <p><a href="#">bs IT rubrics.docx</a></p>	<p><b>NOT MET</b></p> <p>Class Project Performance</p> <p>■ Met ■ Approached</p>  <p>0% 100%</p> <p>Met: 70% Approached: 30%</p> <p>Met Total: 70% Not Met Total: 30%</p> <p><b>Analysis</b></p> <p>The measure was not meet based on the review. The faculty voiced concerns that the project scope did not allow students to demonstrate what is assessed in the rubric.</p>	<p><b>Revise Measurement / Assessment</b></p> <p><b>COMPLETE</b></p> <p>A different project will be used next year for this assessment. The project was focused on ethics and management that does not fit the goals of the assessment.</p> <p>Recommended Due Date: 05/30/2025</p>
<p><b>Selecting Management Approach</b></p> <p>The final exam in INEN 4351 focuses on selecting the correct approach to solve case study problems. The exam is a multiple-choice test over key engineering management concepts. The exam is closed book and closed note. The exam is a good test of knowledge of management strategy.</p> <p><i>Prod &amp; Inventory Systems: INEN 4351</i></p> <p><b>Target</b></p> <p>70% of students are able to pass an exam focused on picking the correct approach to management problems.</p>	<p><b>MET</b></p> <p>Selecting Management Approach</p> <p>■ Met ■ Approached</p>  <p>0% 100%</p> <p>Met: 75% Approached: 25%</p> <p>Met Total: 75% Not Met Total: 25%</p> <p><b>Analysis</b></p> <p>The final exam in INEN 4351 focuses on selecting the correct approach to solve case study problems. The exam is a multiple-choice test over key engineering management concepts. The exam is closed book and closed note. The exam is a good test of knowledge of management strategy.</p>	<p><i>No actions have been added.</i></p>

Communication



2. an ability to communicate effectively with a range of audiences.

MEASURES	RESULTS	ACTIONS										
<p><b>Class Project Performance</b></p> <p><i>Industrial Management: INEN 4315</i></p> <p><b>Target</b></p> <p>75% of students should achieve 3 or 4 on the attached rubrics. The rubrics are graded by 3 faculty members.</p> <p>The 75% target is set based on the wording of the rubrics that have a demanding standard. The elements of the rubrics are average to one score for the outcome and rounded down to get the percentage of students who achieve the outcome.</p> <p><a href="#">bs IT rubrics.docx</a></p>	<p><b>MET</b></p> <p>Class Project Performance</p> <p>■ Met ■ Approached</p>  <table><tr><td>Met:</td><td>80%</td></tr><tr><td>Approached:</td><td>20%</td></tr><tr><td>Met Total:</td><td>80%</td></tr><tr><td>Not Met Total:</td><td>20%</td></tr></table> <p><b>Analysis</b></p> <p>The communication in the assessed report meet the standards.</p>	Met:	80%	Approached:	20%	Met Total:	80%	Not Met Total:	20%	<p>No actions have been added.</p>		
Met:	80%											
Approached:	20%											
Met Total:	80%											
Not Met Total:	20%											
<p><b>Short Paragraph Review</b></p> <p>A sample of student resumes were deidentified (company names, dates, and similar information). A job description from each resume was evaluated by LU version of Co-pilot on a scale of good, average, weak, and very weak.</p> <p><i>Industrial Engineering-Intro: INEN 3300</i></p> <p><b>Target</b></p> <p>75% of student resume have effective job descriptions. A target of 75% is set due to being a first pass exercise on resume writing for students in an introduction course.</p>	<p><b>MET</b></p> <p>Short Paragraph Review</p> <p>■ Exceeded ■ Met ■ Approached</p>  <table><tr><td>Exceeded:</td><td>43%</td></tr><tr><td>Met:</td><td>43%</td></tr><tr><td>Approached:</td><td>14%</td></tr><tr><td>Met Total:</td><td>86%</td></tr><tr><td>Not Met Total:</td><td>14%</td></tr></table> <p><b>Analysis</b></p> <p>The resume passed the co-pilot test. Based on instructors review, they were also effective (19 of 21). The deidentification process might have limited the quality of some of the descriptions.</p>	Exceeded:	43%	Met:	43%	Approached:	14%	Met Total:	86%	Not Met Total:	14%	<p>No actions have been added.</p>
Exceeded:	43%											
Met:	43%											
Approached:	14%											
Met Total:	86%											
Not Met Total:	14%											

## Modeling

3. an ability to uses modeling to support manufacturing systems.

MEASURES	RESULTS	ACTIONS
<p><b>Class Project Performance</b></p> <p>Direct - Assignment</p>	<p><b>NOT MET</b></p> <p>Class Project Performance</p>	<p><b>Revise Measurement / Assessment</b></p> <p><b>COMPLETE</b></p>

<p><i>Industrial Management: INEN 4315</i></p> <p><b>Target</b></p> <p>75% of students should achieve a 3 or 4 based on the attached rubrics.</p> <p>The 75% target is set based on the wording of the rubrics that have a demanding standard. The elements of the rubrics are average to one score for the outcome and rounded down to get the percentage of students who achieve the outcome.</p> <p><a href="#">bs IT rubrics.docx</a></p>	<p>■ Met ■ Approached</p>  <p>0% 100%</p> <p>Met: 40% Approached: 60%</p> <p>Met Total: 40% Not Met Total: 60%</p> <p><b>Analysis</b></p> <p>The project was focused on ethics instead of system modeling.</p>	<p>The project was focused on ethics not system modeling. Next years assessment will use a different course to better assess this outcome.</p>
<p><b>Performance on Forecasting Question</b></p> <p>This question is based on 3 numeric response questions so rubrics are not required.</p> <p>Direct - Exam (Course)</p> <p><i>Prod &amp; Inventory Systems: INEN 4351</i></p> <p><b>Target</b></p> <p>75% of students should be able to solve numeric forecasting questions.</p>	<p><b>MET</b></p> <p>Performance on Forecasting Question</p> <p>■ Met ■ Not Met</p>  <p>0% 100%</p> <p>Met: 93% Not Met: 7%</p> <p>Met Total: 93% Not Met Total: 7%</p> <p><b>Analysis</b></p> <p>The students did well on exam questions related to forecasting.</p>	<p><i>No actions have been added.</i></p>

## BS in Industrial Technology - BS-BSIT Success Outcomes

### Employment **MET**

Students should demonstrate success in the labor market.

MEASURES	RESULTS	ACTIONS
<p><b>Salary data</b></p> <p>TexasCrews data is used to determine average salary.</p> <p><b>Target</b></p> <p>Student salary data based on public sources should be above the average for the state.</p>	<p><b>MET</b></p> <p><b>Summary</b></p> <p>This salary data was discussed in a faculty meeting. No specific action items were developed to improve the metric. The faculty also review prior years and career progression data.</p> <p><a href="#">BSIT Salary Analysis.pdf</a></p> <p><b>Analysis</b></p>	<p><i>No actions have been added.</i></p>

	<p>This salary data was discussed in a faculty meeting. No specific action items were developed to improve the metric. The faculty also review prior years and career progression data. The faculty are pleased with the data and no specific action plans were developed from the discussion.</p>	
<p><b>Long Term Employment</b></p> <p>2019 to 2017 graduates are used for the analysis.</p> <p>Direct - Average Time</p> <p><b>Target</b></p> <p>Salaries of graduate 5 to 7 year post graduation should be high compared to similar majors at other schools based on Texas Crews data. Target is to be in the top half of schools in Texas.</p>	<p><b>MET</b></p> <p><b>Summary</b></p> <p>The average salary of our graduates is high. The 2017 to 2019 graduates had a 2023 of 110K, 102K, and 105K. All were significantly above the state average and most years were top in the state.</p> <p><a href="#">past graduates.pdf</a></p> <p><b>Analysis</b></p> <p>Most students have a AAS degree combined with BS Industrial Technology. This combination appears to be effective compared to pure technology BS degrees.</p>	<p><i>No actions have been added.</i></p>

## Conclusion

The employment outcome is meet based on salary data. BSIT students perform well in the labor market. The faculty will also do career advising focusing on students without AAS degrees who need assistance with merging with the labor market.