

Student Learning Results (4.2 Management and analysis of student learning outcomes)

Programme Level Outcome:	Business Management (PLO 6): <i>Students will be able to apply the concepts of business and management principles to enhance the effectiveness of technological organizations.</i>																		
Performance Measure	Measurement Instrument	Current Results	Analysis of Results	Action Taken or Improvement made	Insert Graphs or Tables of Resulting Trends														
<p>75% of the co-op evaluations will achieve a rating of average or above from co-op employers.</p>	<p>Co-op Employer survey</p> <p>Formative External</p>	<p>Fall 2016: <i>N/A</i></p> <p>Winter 2017: 88% N=25</p> <p>Fall 2017: 94% N=17</p> <p>Winter 2018: 75% N=106</p> <p>Fall 2018: 85% N=243</p> <p>Winter 2019: 81% N=122</p>	<p>Expectations were met</p> <p>Expectations were met</p> <p>Expectations were not met</p> <p>Expectations were met</p> <p>Expectations were met</p>	<p>No action yet. 2018 data is from a new an online survey. Response rate has increased.</p>	<table border="1"> <caption>Business Management (PLO 6) - All</caption> <thead> <tr> <th>Term</th> <th>Percentage</th> </tr> </thead> <tbody> <tr> <td>Fall 2016</td> <td>N/A</td> </tr> <tr> <td>Winter 2017</td> <td>88%</td> </tr> <tr> <td>Fall 2017</td> <td>94%</td> </tr> <tr> <td>Winter 2018</td> <td>75%</td> </tr> <tr> <td>Fall 2018</td> <td>85%</td> </tr> <tr> <td>Winter 2019</td> <td>81%</td> </tr> </tbody> </table>	Term	Percentage	Fall 2016	N/A	Winter 2017	88%	Fall 2017	94%	Winter 2018	75%	Fall 2018	85%	Winter 2019	81%
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<p>50% of our students will be at the 50th percentile ranking or higher versus other participants in Canada based on GLO-BUS strategy simulation game</p>	<p>Glo-Bus (LAR -Canada):</p> <ul style="list-style-type: none"> Financial Analysis Operations Management Human Resources Mgmt <p>Summative External Comparative</p>	<p>Fall 2016: 66%</p> <p>Winter 2017: <i>N/A</i></p> <p>Fall 2017: 40%</p> <p>Winter 2018: <i>N/A</i></p> <p>Fall 2018: 71%</p> <p>Winter 2019: <i>N/A</i></p>	<p>Expectations were met</p> <p>Expectations were not met</p> <p>Expectations were met</p>	<p>None</p> <p>Two simulation opportunities were run instead of one; investigation needed into impact on performance</p>	<table border="1"> <caption>Business Management (PLO 6)</caption> <thead> <tr> <th>Term</th> <th>Percentage</th> </tr> </thead> <tbody> <tr> <td>Fall 2016</td> <td>66%</td> </tr> <tr> <td>Winter 2017</td> <td>N/A</td> </tr> <tr> <td>Fall 2017</td> <td>40%</td> </tr> <tr> <td>Winter 2018</td> <td>N/A</td> </tr> <tr> <td>Fall 2018</td> <td>71%</td> </tr> </tbody> </table>	Term	Percentage	Fall 2016	66%	Winter 2017	N/A	Fall 2017	40%	Winter 2018	N/A	Fall 2018	71%		
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<p>75% of B.Tech students in their final semester will comprehensively meet expectations based on a standard rubric.</p>	<p>Final exam case analysis</p> <p>GENTECH 4FT3 Strategic Management (culminating course for all programmes). Uses the Departmental rubric.</p> <p>Summative Internal</p>	<p>Fall 2016: 74%</p> <p>Winter 2017: <i>N/A</i></p> <p>Fall 2017: 40%</p> <p>Winter 2018: <i>N/A</i></p> <p>Fall 2018: 42%</p>	<p>Expectations were almost met</p> <p>Expectations were not met</p>	<p>Will devote more class time to doing practice cases and provide case exemplar for future course offerings.</p> <p>Need to investigate cohort issues.</p>	<table border="1"> <caption>Business Management (PLO 6)</caption> <thead> <tr> <th>Term</th> <th>Percentage</th> </tr> </thead> <tbody> <tr> <td>Fall 2016</td> <td>74%</td> </tr> <tr> <td>Winter 2017</td> <td>N/A</td> </tr> <tr> <td>Fall 2017</td> <td>40%</td> </tr> <tr> <td>Winter 2018</td> <td>N/A</td> </tr> <tr> <td>Fall 2018</td> <td>42%</td> </tr> </tbody> </table>	Term	Percentage	Fall 2016	74%	Winter 2017	N/A	Fall 2017	40%	Winter 2018	N/A	Fall 2018	42%		
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		Winter 2019: N/A	Expectations were not met																														
<p>75% of B.Tech senior students and 50% junior students will comprehensively meet expectations on internal course assessments based on a standard rubric</p>	<p>Departmental rubric: <u>Fall 2016:</u> Senior D.O.E. project, Quality Junior case study, Financial Systems</p> <p><u>Winter 2017:</u> Senior MC exam questions, Ops Mgmt Junior 2 Exam questions, Economics</p> <p><u>Fall 2017:</u> Senior D.O.E. project, Quality Junior case study, Financial Systems</p> <p><u>Winter 2018</u> Senior MC exam questions, Ops Mgmt Junior 2 Exam questions, Economics</p> <p><u>Fall 2018</u> Senior D.O.E project, Quality Junior Case Study, Financial Systems</p> <p><u>Winter 2019</u> Senior MC exam questions, Ops Mgmt Junior 2 Exam questions, Economics</p> <p>Formative Internal</p>	<p><u>Fall 2016:</u> (senior) 83% (junior) 100%</p> <p><u>Winter 2017:</u> (senior) 34% (junior) 34%</p> <p><u>Fall 2017:</u> (senior) 90% (junior) 98%</p> <p><u>Winter 2018:</u> (senior) 50% (junior) 51%</p> <p><u>Fall 2018:</u> (senior) 100% (junior) 93%</p> <p><u>Winter 2019:</u> (senior) 28% (junior) 40%</p>	<p>Expectations were met for senior and junior students</p> <p>Did not meet benchmark at the senior or junior level.</p> <p>Expectations were met for senior and junior students</p> <p>Did not meet benchmark at the senior level.</p> <p>Expectations were met for senior and junior students</p> <p>Did not meet benchmark at the senior or junior level.</p>	<p>None</p> <p>Senior measure comes from multiple choice questions. Investigating the specific questions and their relevance to the PLO.</p> <p>Junior level will require a re-assessment of the questions used to determine if the issue is the questions or the student understanding.</p>	<table border="1"> <caption>Business Management (PLO 6) - Senior</caption> <thead> <tr> <th>Term</th> <th>Senior</th> </tr> </thead> <tbody> <tr> <td>Fall 2016</td> <td>83%</td> </tr> <tr> <td>Winter 2017</td> <td>34%</td> </tr> <tr> <td>Fall 2017</td> <td>90%</td> </tr> <tr> <td>Winter 2018</td> <td>50%</td> </tr> <tr> <td>Fall 2018</td> <td>100%</td> </tr> <tr> <td>Winter 2019</td> <td>28%</td> </tr> </tbody> </table> <table border="1"> <caption>Business Management (PLO 6) - Junior</caption> <thead> <tr> <th>Term</th> <th>Junior</th> </tr> </thead> <tbody> <tr> <td>Fall 2016</td> <td>100%</td> </tr> <tr> <td>Winter 2017</td> <td>34%</td> </tr> <tr> <td>Fall 2017</td> <td>98%</td> </tr> <tr> <td>Winter 2018</td> <td>51%</td> </tr> <tr> <td>Fall 2018</td> <td>93%</td> </tr> <tr> <td>Winter 2019</td> <td>40%</td> </tr> </tbody> </table>	Term	Senior	Fall 2016	83%	Winter 2017	34%	Fall 2017	90%	Winter 2018	50%	Fall 2018	100%	Winter 2019	28%	Term	Junior	Fall 2016	100%	Winter 2017	34%	Fall 2017	98%	Winter 2018	51%	Fall 2018	93%	Winter 2019	40%
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Programme Level Outcome:	Communications (PLO 7): <i>Students will be able to communicate information, develop persuasive points of view, and analyze accurately and reliably, orally and in writing for a range of audiences.</i>																																														
Performance Measure	Measurement Instrument	Current Results	Analysis of Results	Action Taken or Improvement made	Insert Graphs or Tables of Resulting Trends																																										
<p>75% of B.Tech senior students and 25% junior students will comprehensively meet expectations on internal course assessments based on a standard rubric</p>	<p>Departmental rubric: <u>Fall 2016:</u> Senior presentation, Ethics & Sustain Junior aggregate performance on two written exam questions, Comm. Skills I</p> <p><u>Winter 2017:</u> Senior presentation/report, Tech& Society Junior presentation, Comm. Skills II</p> <p><u>Fall 2017:</u> Senior presentation, Ethics & Sustain Junior aggregate performance on two written exam questions, Comm. Skills I</p> <p><u>Winter 2018:</u> Senior presentation/report, Tech& Society Junior presentation, Comm. Skills II</p> <p><u>Fall 2018:</u> Senior presentation, Ethics & Sustain Junior aggregate performance on two written exam questions, Comm. Skills I</p> <p><u>Winter 2019:</u> Senior presentation/report, Tech& Society</p>	<p><u>Fall 2016:</u> (senior) 68% (junior) 14%</p> <p><u>Winter 2017:</u> (senior) 63.33% (junior) 84%</p> <p><u>Fall 2017:</u> (senior) 87% (junior) 54%</p> <p><u>Winter 2018:</u> (senior) 63% (junior) 84%</p> <p><u>Fall 2018:</u> (senior) 78% (junior) 52%</p> <p><u>Winter 2019:</u> (senior) 62% (junior) 59%</p>	<p><i>Did not meet benchmark at the senior or junior level.</i></p> <p><i>Did not meet benchmark at the senior level.</i></p> <p><i>Did not meet benchmark at the junior level.</i></p> <p><i>Did not meet benchmark at the senior level.</i></p> <p><i>Expectations were met at the senior and junior level.</i></p> <p><i>Did not meet benchmark at the senior level.</i></p>	<p><i>For senior presentation classes more time will be devoted to reviewing assignment expectations and providing a presentation exemplar.</i></p> <p><i>For junior, the exam questions will be slightly reworded to help students understand both the content and formatting components of the question.</i></p> <p><i>For senior presentation classes more time will be devoted to reviewing assignment expectations and providing a presentation exemplar.</i></p>	<p>Communications (PLO 7) - Senior</p> <table border="1"> <thead> <tr> <th>Term</th> <th>Senior (%)</th> <th>Junior (%)</th> </tr> </thead> <tbody> <tr> <td>Fall 2016</td> <td>68%</td> <td>14%</td> </tr> <tr> <td>Winter 2017</td> <td>63.33%</td> <td>84%</td> </tr> <tr> <td>Fall 2017</td> <td>87%</td> <td>54%</td> </tr> <tr> <td>Winter 2018</td> <td>63%</td> <td>84%</td> </tr> <tr> <td>Fall 2018</td> <td>78%</td> <td>52%</td> </tr> <tr> <td>Winter 2019</td> <td>62%</td> <td>59%</td> </tr> </tbody> </table> <p>Communications (PLO 7) - Junior</p> <table border="1"> <thead> <tr> <th>Term</th> <th>Senior (%)</th> <th>Junior (%)</th> </tr> </thead> <tbody> <tr> <td>Fall 2016</td> <td>68%</td> <td>14%</td> </tr> <tr> <td>Winter 2017</td> <td>63.33%</td> <td>84%</td> </tr> <tr> <td>Fall 2017</td> <td>87%</td> <td>54%</td> </tr> <tr> <td>Winter 2018</td> <td>63%</td> <td>84%</td> </tr> <tr> <td>Fall 2018</td> <td>78%</td> <td>52%</td> </tr> <tr> <td>Winter 2019</td> <td>62%</td> <td>59%</td> </tr> </tbody> </table>	Term	Senior (%)	Junior (%)	Fall 2016	68%	14%	Winter 2017	63.33%	84%	Fall 2017	87%	54%	Winter 2018	63%	84%	Fall 2018	78%	52%	Winter 2019	62%	59%	Term	Senior (%)	Junior (%)	Fall 2016	68%	14%	Winter 2017	63.33%	84%	Fall 2017	87%	54%	Winter 2018	63%	84%	Fall 2018	78%	52%	Winter 2019	62%	59%
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	<i>Junior presentation, Comm. Skills II</i>				
	<i>Formative Internal</i>				
75% of the B.Tech co-op evaluations will achieve a rating of average or above from co-op employers.	Co-op Employer survey: <i>Formative External</i>	<p>Fall 2016: <i>n/a</i></p> <p>Winter 2017: 96% N=25</p> <p>Fall 2017: 100% N=17</p> <p>Winter 2018: 93% N=106</p> <p>Fall 2018: 93% N = 243</p> <p>Winter 2019: 96% N=122</p>	<p>Expectations were met</p> <p>Expectations were met</p> <p>Expectations were met</p> <p>Expectations were met</p> <p>Expectations were met</p>	<p>2018 data is from a new an online survey. Response rate has increased.</p>	

Programme Level Outcome:	Effective Contribution (PLO 8): <i>Students will be able to contribute effectively as both follower and leader depending on the situation.</i>				
Performance Measure	Measurement Instrument	Current Results	Analysis of Results	Action Taken or Improvement made	Insert Graphs or Tables of Resulting Trends
50% of our students will be at the 50th percentile ranking or higher versus other participants in Canada based on GLO-BUS strategy simulation game.	<p>Glo-Bus (LAR -Canada):</p> <ul style="list-style-type: none"> Leadership Skills Collaboration and Teamwork <p><i>Summative External Comparative</i></p>	<p>Fall 2016: 45%</p> <p>Winter 2017: <i>N/A</i></p> <p>Fall 2017: 61%</p> <p>Winter 2018: <i>N/A</i></p> <p>Fall 2018: 75%</p>	<p>Did not meet benchmark</p> <p>Expectations were met</p> <p>Expectations were met</p>	<p>Investigate opportunities get feedback of team processing skill performance throughout the term.</p> <p>Two simulation opportunities were run instead of one; investigation needed into impact on performance</p>	

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<p>75% of the B.Tech co-op evaluations will achieve a rating of average or above from co-op employers.</p>	<p>Co-op Employer survey: Formative External</p>	<p>Fall 2016: <i>n/a</i> Winter 2017: 96% N=25 Fall 2017: 88% N=17 Winter 2018: 93% N=106 Fall 2018: 98% N = 243 Winter 2019: 96% N=122</p>	<p>Expectations were met Expectations were met Expectations were met Expectations were met Expectations were met</p>	<p>2018 data is from a new online survey. Response rate has increased.</p>	<table border="1"> <caption>Effective Contribution (PLO 8) - All</caption> <thead> <tr> <th>Term</th> <th>Percentage</th> </tr> </thead> <tbody> <tr> <td>Fall 2016</td> <td>0%</td> </tr> <tr> <td>Winter 2017</td> <td>96%</td> </tr> <tr> <td>Fall 2017</td> <td>88%</td> </tr> <tr> <td>Winter 2018</td> <td>93%</td> </tr> <tr> <td>Fall 2018</td> <td>98%</td> </tr> <tr> <td>Winter 2019</td> <td>96%</td> </tr> </tbody> </table>	Term	Percentage	Fall 2016	0%	Winter 2017	96%	Fall 2017	88%	Winter 2018	93%	Fall 2018	98%	Winter 2019	96%
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<p>Programme Level Outcome:</p>	<p>Professionalism (PLO 9): Students will be able to conduct oneself in a responsible, professional manner at all times.</p>																		
<p>Performance Measure</p>	<p>Measurement Instrument</p>	<p>Current Results</p>	<p>Analysis of Results</p>	<p>Action Taken or Improvement made</p>	<p>Insert Graphs or Tables of Resulting Trends</p>														
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