



### **Bachelor of Engineering in Manufacturing Engineering**

#### **18-Month Follow-Up Dean: Dr. Tarlochan Sidhu**

Under Ontario Tech University's Quality Assurance Framework, all degree programs are subject to a comprehensive review every eight years to ensure that they continue to meet provincial quality assurance requirements and to support their ongoing rigour and coherence. Program reviews involve several stages, including:

1. A comprehensive and analytical self-study brief developed by members of the program under review.
2. A site visit by academic experts who are external to and arm's length from the program who prepare a report and recommendations on ways that it may be improved based on a review of the program's self-study and supporting material, and a two day site visit involving discussions with faculty, staff and students and a tour of the facilities.
3. Development of a plan for improvement by the program and proposed timelines for implementation.

All programs that undergo a review must provide a report eighteen months after the completion of the review to gather information on the progress that has been made implementing the agreed upon plans for improvement.

In 2016-2017 a program review was scheduled for the Bachelor of Engineering in Manufacturing Engineering, with a site visit November 6-7, 2017. The program has submitted to the Provost's Office a comprehensive chart outlining the progress they have made relative to the action plans resulting from the review. A summary of this progress is provided on the following pages. The summary report is reviewed by the appropriate standing committee of Academic Council and is subsequently reported to Academic Council and the Board of Governors.

**Next Scheduled Program Review: 2023-2025**

<b>Action Items</b>	<b>Process Status</b>	<b>Comments</b>
Addition of six faculty members to the Faculty of Engineering to help improve the faculty to student ratio.	<i>Complete</i>	<i>Since 2018, there have been 2 TTT and 3 TF hired. A further 2 TTT are currently being hired (one being a Tier 1 CRC).</i>
Move the Manufacturing Engineering program into newly created, smaller department.	<i>Complete</i>	<i>Proposal to form a Department of Mechanical and Manufacturing Engineering and a Department of Automotive and Mechatronics Engineering has been approved by Faculty Council and Academic Council. Council.</i>
Move academic advising to a departmental model as opposed to centralized.	<i>On hold</i>	<i>There are currently budgetary restrictions that prevent this from proceeding.</i>
Make ACE's machine shop available to undergraduate students and provide the appropriate safety training.	<i>On hold</i>	<i>There are a number of safety and budgetary issues that need to be addressed before this can move forward.</i>
Implement mandatory co-op and internship courses within the program.	<i>Complete – resources in place to implement changes</i>	<i>The Faculty has further strengthened support for its co-op and internship program with two dedicated staff. Implementation of mandatory courses not yet defined.</i>
Manufacturing program curriculum committee to review curriculum to see if there is a way to differentiate the second year curriculum.	<i>Complete</i>	<i>Several changes to enhance the curriculum are being proposed, but these changes will primarily be in the third and fourth year.</i>
Increase the number of technical electives offered to three.	<i>Complete</i>	<i>Several changes to enhance the curriculum are being proposed, with a course on industrial automation and a course on additive manufacturing being added. It is planned to make these core courses, so it might not be possible to add a third technical elective.</i>