

MECH 497 VALUE ENGINEERING WORKSHOP (3 Credits)

Jan-2022

Professor: Prof. Paul Zsombor-Murray, ing. Lucie Parrot, ing. CVS (life),
Prof. Vince Thomson

Semester/Day/Time: Winter, Mondays 13:30 - 21:30 hrs (8 sessions) MD267

Objectives: To learn the value engineering methodology
To learn how to manage value in projects
To obtain industry-related experience in applying value engineering methods

Pre-requisite: MECH 393 Machine Element Design

Course Description:

The McGill University Value Engineering Workshop is a 40-hour intensive course where five (or more) students are teamed with industry personnel in order to attempt to improve the value (defined as the ratio of benefit to cost) of a product, process or service of a sponsoring company. The workshop is led by a Certified Value Specialist, and the workshop is qualified by SAVE (the Society of American Value Engineers) as one which satisfies one of their workshop requirements for becoming a CVS.

The workshop consists of eight scheduled meetings, five of which are eight hours in length. In the first week after Labour day, students are given an introduction to the course, prior to being assigned to teams, in a one-hour session (attendance is mandatory). The workshop session begins on the second week, and the evening meal is provided as part of the 1:30 to 9:30 p.m. meeting. The weekly meetings follow closely the five-step job plan of Larry Miles, the originator of Value Engineering, ending in the Presentation and Reporting Phase. A one-hour meeting by appointment is scheduled for each team to rehearse the final presentation on the seventh week. The final presentation is held the following week in a nearby hotel conference room with all of the sponsoring company participants and many of their management personnel in attendance. A .pdf file of the final report is due one week after the final presentation. Classes in the workshop are not cancelled should the university be closed on the day of the meeting. Instead, they are delayed until the next week. (Special meetings may be called with all team members present to resolve any interpersonal disputes.)

Text: Lucie Parrot's web accessible notes.

Exam/Term Paper/Project/Grading Scheme:

The marking of the course is based on the following schedule.

Final presentation: organization, delivery, graphics	30%
Final report: quality, accuracy, completeness	30%
Company evaluation of team members	20%
Company evaluation of team performance	20%

McGill University values academic integrity. Therefore all students must understand the meaning and consequences of cheating, plagiarism and other academic offences under the Code of Student Conduct and Disciplinary Procedures. For more information see www.mcgill.ca/students/srr/honest/.

In accord with McGill University's Charter of Students' Rights, students in this course have the right to submit in English or in French any written work that is to be graded. [In the event of extraordinary circumstances beyond the University's control, the content and/or evaluation scheme in this course is subject to change.](#)