



A POLYTECHNIC INSTITUTION

Course Outline

School of Manufacturing, Electronics and Industrial Processes

Program: Technology Teacher Education

TTED 4050
Power Technology

Start Date:	September 2006	End Date:	November 21, 2006
Total Hours:	132	Total Weeks:	11
Hours/Week:	12	Lecture:	4
		Lab:	8
		Shop:	0
		Seminar:	0
		Other:	0
Prerequisites		TTED 4050 is a Prerequisite for:	
Course No.	Course Name	Course No.	Course Name
TTED 3050	Power Technology Foundations	TTED 5050	Teaching Automotive Systems
TTED 4000	Design, Drawing & CAD 1	TTED 5080	Directed Technical Project 1
TTED 4010	Computer Applications for TTED	TTED 6099	Safety across Tech Ed Curriculum
TTED 4025	Power Manufacturing for TTED		
TTED 4040	Materials Science for TTED		

Course Description

This course will continue the investigations that began in TTED 3050, into various engine and related support system design, function and maintenance in detail. Transmission of power, robot design and function will also be included. Lab work and self directed shop projects will be used to provide students with practical experience to support the theory material studied..

Evaluation

Practical work will contribute 60%, and theory work 40% of the final course grade.

NOTE: Student must "pass" both the Theory and Practical components of TTED 4050 to gain course credit.

Practical assignments will be apportioned marks in accordance with the percentage of course time allotted/budgeted for each assignment by the instructors.

Theoretical knowledge will be tested via one midterm and a final examination. Theory marks will be the simple average of these two tests.

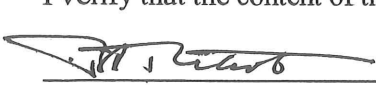
Practical work	60%
Theory work	40%
TOTAL	100%

Course Learning Outcomes/Competencies

See detailed "Topic for Discussion" reading, reference and learning objective outline for each theory topic to be studied.

Verification

I verify that the content of this course outline is current.



Authoring Instructor

SEPT 5/06

Date

I verify that this course outline has been reviewed.

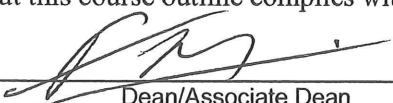


Program Head/Chief Instructor

Sept 5/06

Date

I verify that this course outline complies with BCIT policy.



Dean/Associate Dean

2006/09/05

Date

Note: Should changes be required to the content of this course outline, students will be given reasonable notice.

Instructor(s)

Roger Bortignon	Office Location: SW9 205	Office Phone: 604-412-7412
Peter Trant	SW9 201F	604-432-8280
Office Hrs.:	By appointment	E-mail Address: peter_trant@bcit.ca roger_bortignon@bcit.ca

Learning Resources

Required:

Small Gas Engines. Roth, Charles C. The Goodheart-Wilcox Company Inc. ISBN 1-56637, copyright 2004

Power Technology. Stephenson, George E. Delmar Publishers Inc. ISBN 0-8273-2446-4. Copyright 1986 This text is being reprinted and is available through the BCIT bookstore

Information for Students

Assignments: Late assignments, lab reports or projects will be devalued 10% per day late. Assignments, lab reports or projects must be done on an individual basis unless otherwise specified by the instructor.

Makeup Tests, Exams or Quizzes: There will be **no** makeup tests, exams or quizzes. If you miss a test, exam or quiz, you will receive zero marks. Exceptions may be made for **documented** medical reasons or extenuating circumstances. In such a case, it is the responsibility of the student to inform the instructor **immediately**.

Ethics: BCIT assumes that all students attending the Institute will follow a high standard of ethics. Incidents of cheating or plagiarism may, therefore, result in a grade of zero for the assignment, quiz, test, exam, or project for all parties involved and/or expulsion from the course.

Attendance: The attendance policy as outlined in the current BCIT Calendar will be enforced. Attendance will be taken at the beginning of each session. Students not present at that time will be recorded as absent.

Illness: A doctor's note is required for any illness causing you to miss assignments, quizzes, tests, projects, or exam. At the discretion of the instructor, you may complete the work missed or have the work prorated.

Attempts: Students must successfully complete a course within a maximum of three attempts at the course. Students with two attempts in a single course will be allowed to repeat the course only upon special written permission from the Associate Dean. Students who have not successfully completed a course within three attempts will not be eligible to graduate from the appropriate program.

Course Outline Changes: The material or schedule specified in this course outline may be changed by the instructor. If changes are required, they will be announced in class.

Advancement: Students who fail three or more courses in a term cannot advance to the next term and may be asked to discontinue from the program.