Grande Prairie Regional College **Fall 2006**

Department of Workforce Development

Outline of PN 1000 Applied Mechanics I 4(8-0-0) Part A

Basic Course Information

Instructor: Tanvir Sadiq, P.Eng.

Office: Room J209

Phone: 539-2865, Fax: 539-2791

Office Hours:

Tuesdays & Thursdays 16:00-17:00

Pre-requisite:

None.

Text: Power Engineering, Fourth Class, Second Edition, January 2006, Published by PanGlobal Training Systems Ltd.

Grading Scheme:

Assignments:	20%
Quizzes:	20%
Attendance:	10%
Exams:	50%

Grades:

For the college grading system details refer to: http://www.gprc.ab.ca/pdf/policies/academic/GradingPolicy-2003.pdf

COURSE DESCRIPTION:

This is an introduction to mathematics, mechanics, basic electricity and thermodynamics. Emphasis will be placed on problem solving techniques for practical engineering problems.

COURSE OBJECTIVES:

Understanding of the topics & terms and problem solution techniques listed at the course description above.

Instructional Approach:

Both conventional and modern techniques will be used for the teaching of the text material.

Quizzes / Assignments:

There will be a number of assignments and quizzes related to topics covered. Assignments and home works must be submitted in the class on the due date. Late assignments will not be accepted for marks and will carry Zero score.

Midterm & Final Exam:

There is a midterm and a final exam for PN1000. Dates will be announced later.

Tips for Succeeding in this Course

Read the textbook before the material covered in the class.

Attend all classes with full attention

Instructor Expectation:

1- Guidelines governing student conduct rules at the college are listed in the college calendar 2006-2007 pages 43 to 47. Please become familiar with these expectations.

2- The college and the Workforce Development Department are established for adult education with expectations for behavior established as noted above. A log will be kept for any student who fails to meet these expectations. Continued entries in this of inappropriate behaviors can result in removal from class.

Attendance:

1- Technician and technology programs are either certified or regulated by outside government agencies or departments and as a result, attendance is mandatory. As such an attendance list is circulated in every class. Each student needs to print his/her full name in the appropriate space for each class and sign it in order to maintain a record of attendance. Students are reminded that attendance in class is mandatory. Please communicate with the instructor if there are extenuating circumstances that prevent your attendance.

2- Any other issues that may affect the performance of a student academically, needs to be addressed to myself or the director of the workforce department (Kathleen Frei) in order to be provided advice or assistance.

I welcome any feedback from the students in order to improve my teaching pattern in the class or to be more helpful with the progress of the students.

Record Retention:

Class records related to this course will be maintained for six months after the last day of classes. These records will then be stored in accordance with College policies.

PN1050

Tentative Class Schedule Fall 2006

	Dates	Topic	Chapter Reading
1	(W, M) Sep 6, 11	Introduction & Elementary thermodynamics	A1(U3)
2	(T) Sep 12	Sketching	A1(U4)
3	(W, M) Sep 13, 18	Codes and standards, Plant fire protection	A1(U5, 8)
4	(T, W, R) Sep 19, 20, 21	Environment	A2(U9)
5	(F) Sep 22	Materials welding	A2(U10)
6	(M) Sep 25	**(Quiz-1-)**, Materials welding	A2(U10)
7	(T, W) Sep 26,27	Material welding	A2(U10,11)
8	(R, F) Sep 28, 29	Piping	A2(U11)
9	(M, T) Oct 2, 3	HP boiler design	A2(U12)
10	(W, R, F) Oct 4, 5, 6	**(Quiz-2)**, Draft, combustion, HP boiler fittings	A2(U13)
	(M) Oct 9	Holiday	
12	(T) Oct 10	**(Quiz-3)**, Draft, combustion, HP boiler fittings	A2(U13)
13	(W, R) Oct 11, 12	HP boiler operation	A2(U14)
14	(F) Oct 13	Feed water treatment	A2(U15)
15	(M) Oct 16	**(Midterm),** Prime movers and engines	B1(U16)