Grande Prairie Regional College Fall 2006

Department of Workforce Development

Outline of PN 1055 (4) Power Engineering I, Part B

Basic Course Information

Instructor: Houshang Ghazi, MEng, MSc.

Office: Room M104

Phone: 539-2704, Fax: 539-2791

Office Hours:

Mondays through Thursdays 16:00-17:00

Pre-requisite:

To meet the requirements for PN 1050 and the completion of PN 1050.

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

Grading Scheme:

Quizzes: 30%
Midterm: 35%
Final: 35%

COURSE DESCRIPTION:

This is the study of prime movers and engines, pumps, compressors, lubrication, electricity, controls and instrumentation, heating boilers, steam and water heating systems, auxiliary building systems, refrigeration, air conditioning, boiler maintenance, and type of plants.

COURSE OBJECTIVES:

Understanding of the terms and equipment topics listed at the course description above.

Grades:

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

Instructional Approach:

A data projector will be used for the teaching of the text material

Quizzes / Assignments:

There will be no designated assignment, but three quizzes for the course will be taken.

Midterm & Final Exam:

There is a midterm for PN1050, and a final exam which is combined with PN1055.

Tips for Succeeding in this Course

Read the textbook before the material covered in the class.

Attend all classes with full attention

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 destroyed in a secure manner.

PN1055

Tentative Class Schedule Fall 2006

	Dates	Topic	Chapter
1	(M, T, W, R) Oct 16, 17, 18, 19	Prime movers and engines	B1(U16)
2	(F, M) Oct 20, 23	Pumps and compressors, Lubrication	B1(U17, 18)
3	(T, W, R) Oct 24, 25, 26	Electricity	B2(U18, 19)
4	(F) Oct 27	Electricity, Controls and instrumentation	B1(U19, 20)
5	(M) Oct 30	**(Quiz-1),** Controls and instrumentation	B1(U20)
6	(T) Oct 31	Controls and instrumentation	B1(U20)
7	(W) Nov 1	Controls and instrumentation	B1(U20)
8	(R, F, M) Nov 2, 3, 6	Heating boilers	B1(U21)
9	(T, W, R, F) Nov 7, 8, 9, 10	Steam and water heating systems	B1(U22)
	(M) Nov 13	Holiday	
	(T) Nov 14	**(Quiz-2)**	
10	(W, R) Nov 15, 16	Heating boilers and heating systems controls	B2(U23)
11	(F) Nov 17	Auxiliary building systems	B2(U24)
12	(M, T, W, R, F) Nov, 20 21, 22, 23, 24	Vapor compression refrigeration	B2(U25)
13	(M) Nov 27	**(Quiz-3),** Absorption refrigeration	B2(U26)
14	(T, W, R), Nov 28, 29, 30	Air conditioning	B2(U27)
15	(F, M) Dec 1, 4	Air conditioning systems	B2(U28)
16	(T, W, R) Dec 5, 6, 7	Boiler maintenance	B2(U29)
17	(F) Dec 8	Types of plants	B2(U30)