DEPARTMENT OF POWER ENGINEERING

COURSE OUTLINE – FALL 2011

POF 432 –Controls

INSTRUCTOR: Augustine Ebinu **PHONE:** 780-835-6692
OFFICE: PS 130 **E-MAIL:** AEbinu@GPRC.AB.CA

OFFICE HOURS: Click here to enter text.

PREREQUISITE(S)/COREQUISITE:

A high school diploma including:

English 30-1 or 30 -2

Math 30 Pure or Applied, (after 2012 Math 30-1 or 30-2)

Science 30 OR Chemistry 20 OR Physics 20

And a Career Investigation (specified format)

REQUIRED TEXT/RESOURCE MATERIALS:

PE4B Text (BOOK 1)

PE4B Workbook

PE3 Section 2 Chapters 11 to 13

RECOMMENDED Reference

Instrumentation, Kirk-Rimboi

CALENDAR DESCRIPTION:

This course covers the fundamental principles of industrial measurement and control with emphasis on power plant instrumentation. Topics include: basic control theory; pressure, flow, level and temperature sensing and

control; boiler burner management; boiler combustion and water level control; basic computer theory and computerized control as it relates to power plant operation.

CREDIT/CONTACT HOURS: 23 hours

DELIVERY MODE(S): Fairview Campus Only

OBJECTIVES:

To ensure students become knowledgeable and competent in the fundamental principles of industrial measurement and control with emphasis on power plant instrumentation

TRANSFERABILITY: As per ABSA requirements

GRADING CRITERIA:

Method	Percentage	Minimum
Course assignments/workbooks	15%	50%
CML quizzes	15%	50%
Unit Exams	30%	50%
Final Exam	40%	50%
	100%	50%
		65% average, with no mark below 50%

EXAMINATIONS: As per Power Engineering Student Manual

STUDENT RESPONSIBILITIES: As per Power Engineering Student Manual

STATEMENT ON PLAGIARISM AND CHEATING:

Please refer to pages 49-50 of the College calendar regarding plagiarism, cheating and the resultant penalties. These are serious issues and will be dealt with severely.

COURSE SCHEDULE/TENTATIVE TIMELINE:

Nov. 15- Dec 17., 2010
Monday – Thursday – 12:30-14:20