PN1000 **APPLIED MECHANICS I**

INSTRUCTOR: Joseph Alfonso **OFFICE: M117** **EXT: 2721**

TEXT: SAIT Correspondence Courses Power Engineering

GRADING:

ASSIGNMENTS	15%
QUIZZES	15%
MIDTERMS	30%
FINAL	40%

There will be weekly assignments and **NO LATE ASSIGNMENTS WILL BE ACCEPTED.**

COURSE DESCRIPTION: This course will cover the material required for the Applied Science Component of the Power Engineering Class 4 and 3 exam

Modules to be covered

Class 4

Module		
	1	S.I. Units
	2	Basic Arithmetic Operations
	3	Fractions, Decimals and Percentages
	4	Ratio and Proportion
	5	Equations and Transposition
	6	Length, Lines and simple Plane Figures
	7	Areas and Volumes of Solids
	8	Introduction to Basic Mechanics
	9	Forces and Moments
	10	Simple Machines
	11	Scalars and Vectors I
	12	Linear Velocity and Acceleration
	13	Force, Work, Pressure, Power and Energy
	14	Friction I
	15	Stress and Strain
	16	Power Transmission
	17	Introduction to Thermodynamics
	18	Thermodynamics of Steam
	19	Basic Concepts about Matter
	20	Basic Electricity
	21	Technical Sketching

Class 3

Module		
	1	Applied Science
	2	Trigonometry
	3	Mensuration
	4	Applied Mechanics I
	5	Applied Mechanics II
	7	Applied Mechanics III
	8	Thermodynamics I
	9	Thermodynamics II
	10	Electrical Theory and Circuits
	11	Electrical Calculations
	12	Mechanical Drawing

SCHEDULE

We will be covering Two Modules per week (approximately). The midterm will deal with material covered. Midterm will be held during 7th or 8th week of the semester. The final exam will be cumulative, covering all topics studied during the semester.