Orange County Community College Science & Engineering Department

Course Name:

Physics for Science & Engineering III- 35203

Instructor:

Richard Feinberg

Text:

Physics Part 2, Author; Halliday Resnick

(3lect, 3lab.,

Course Description: Treatment of electro- and magneto-statics, Gauss' Lav Maxwell's Equations. Resistance: inductance: capacitance. Transient and analysisis of RC, RL and RLC circuits. Resonance, electromechanical ana

Prerequisite: 35-104 - Physics for Science and Engineering II

Corequisite: 38-207 - Calculus III

Grading Policy

Three 1hour closed book exams announced at least 1 week in advance. The exams will count 50% of your final grade.

The laboratory average will county the remaining 25% of the final grade. based on approximately 12 full period experiments requiring formal report

Homework problems will be assigned and collected weekly. They will no checked. Homework record can raise final average by 2 to 3 points.

Support Service

There are services available for students with disabilities. Any such condi communicated privately to the instructor on the first day of class so that ar arrangements or accommodations can be made.

Topics

Part I - Electrostatics

Charge and matter - Coulomb's law

Electric field

Gauss' Law

Electric potential

Capacitance *

Current and resistance

EMF and circuits

PART II - Magnetostatics

The magnetic field