

Spring 2005

PHS 101-1C

Dr. S Rao Vallabhaneni

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Text: The Physical Universe, 10th Edition(Special) by Krauskopf & Beiser.

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Aim of the course: The aim of this course is to present, as simply and clearly as possible, the physics part of physical science and its essentials.. The emphasis is going to on basic concepts, showing how scientists approach Students will be given “Hands on Approach” using computers, internet, simulations in addition to conventional laboratory experiments. Students will be given an opportunity to use “Video Point” software to edit and analyze movies of various sports. This will help them to do project of their choice under the guidelines. The students will be given an opportunity to work as groups for class room activities and projects. Through out the course emphasis will be given for scientific method. Problem solving will be used throughout the course. It is the hope that this course will help the students to understand the world and help them to see how things will work in our day to day life.

Course Outline:

Chapter	Title	Section(s)	Remarks
Ch 1	The Scientific Method	1,3,4,5,6,7& 8	Reading assignments Will be given.
Ch 2.	Motion	1 to `15	Graphical Kinematics Will be emphasized.
Ch.3	Energy	1to 9,11 to 13	
Ch. 4	Matter and Energy	1 to 7, 10 to12	
Ch. 5	Electricity & Magnetism	1 to 20	
Ch. 6	Waves	1 to 7, 11 to 17	

Evaluation Scheme:

Quizzes	10%	Maximum 3
Tests	30%	Maximum 3
Class Activity/lab	20%	
Project	10%	Group
Final Examination*	30%	Comprehensive

