



## Mid Year Exams : February 2012

Please place on this sheet the contents of your course that you will be examining in your Mid Year Exam. Details are expected. Chapter numbers, section headings and the like. Please type using this template and then email the template to me using the following syntax in the Subject header of the email : MYEContent : Subject. Each email may contain as many of these sheets as is necessary. Each sheet should be in PDF format and named with the following syntax : MYEC\_20112012\_Class\_Subject.pdf. Thus Jackie would have one called : MYEC\_20112012\_6A\_Maths.PDF

Teacher : Sami Nass

Subject : Physics 9A

### Chapter 1: **Refraction & reflection of Light.**

Index of refraction.  
Total Internal reflection.

### Chapter 2 & 3: **Lenses.**

Formation of images.  
Nature of images (Real & Virtual; Erect or Inverted).

### Chapter 5: **DC Voltage.**

Law of Addition of voltages.  
Series, parallel & mixed circuits.

### Chapter 6: **AC Voltage.**

Settings of oscilloscope. Horizontal & vertical sensitivities.  
Types of signals: Sinusoidal, triangular....

### Chapter 7: **Voltage of the mains.**

Colour codes of outlets & appliances.  
Protection against electrocution. Fuses, Circuit Breakers...

### Chapter 8: **Resistors.**

Grouping in series & in parallel.  
Plotting Voltage-Current characteristic.  
Voltage across resistors.