



## 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 10B

### Chapter 1: **Electrostatics.**

Quantity of charge. Number & charge of electrons.  
Forces of Interaction between charges.  
Distribution & Conservation of charge.

### Chapter 2: **Potential Difference.**

Flow of charge.  
Presence of voltage.  
Law of addition of voltages.

### Chapter 3: **Electric Current.**

Flow of charges & electricity in solid & liquid conductors.  
Sense of the electric current.  
Junction rule. (Splitting of the current)

### Chapter 4: **Resistors.**

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

### Chapter 5: **Generators & Receivers.**

Plotting Voltage-Current characteristics of both generators & receivers.  
Identifying their characteristics; e.m.f & b.e.m.f & their internal resistance.  
Useful & total power of both.  
Efficiency of both.

### Chapter 6: **Electric Circuits.**

Placing generators & receivers in one circuit.

### Chapter 7: **Kinematics I - URM**

Uniform rectilinear motion  
Time Equations  
Graphs of x versus t

